

Electron Intake Project

Summary:

SWPPP Reports from September 23rd through October 28th for Daily water quality and work site activities.

During this period, construction, and completion of phase 1 permitted work occurred. Active construction work finished Oct 28th.

Daily monitoring reports included data for water quality requirements per the Electron Hydro Water Monitoring Plan. Additionally, reports included description of general activities and notes related to the intake project.

*Terms & Conditions as reference for
for Water Quality Monitoring Plan 2020*

USFWS

18 TERMS AND CONDITIONS

In order to be exempt from the prohibitions of section 9 of the ESA, the Corps must comply with the following terms and conditions, which implement the RPMs described above and outline required reporting/monitoring requirements. These terms and conditions are non-discretionary.

1. To implement Reasonable and Prudent Measure 1, the Corps shall ensure that:
 - a. Monitor to establish background turbidity levels upstream of construction and away from the influence of sediment-generating activities. Background turbidity shall be monitored at least twice daily during sediment-generating activities. In the event of a visually appreciable change in background turbidity, an additional sample shall be taken.
 - b. Turbidity monitoring shall be conducted at 1,500 feet downstream of in-water construction activities.
 - c. Monitoring shall be conducted at 30-minute intervals for the first 3 hours from the start of sediment-generating activities. If the background NTU levels are exceeded by the following levels, then the amount of take authorized by the Incidental Take Statement will be exceeded and sediment-generating activities shall cease.
 - i. If background NTU levels are exceeded by 56 NTU at any time.
 - ii. If background NTU levels are exceeded by 37 NTU for more than 1 hour cumulatively over a 10-hour workday.
 - iii. If background NTU levels are exceeded by 13 NTU for more than 3 hours cumulatively over a 10-hour workday.
 - iv. If background NTU levels are exceeded by 8 NTU for more than 7 hours cumulatively over a 10-hour workday.
 - d. If turbidity levels approach the above-listed NTU values, work shall cease and the sediment control procedures shall be reevaluated. Sediment and erosion control measure shall be modified to reduce turbidity levels. The Corps will contact the Service's consulting biologist to discuss means of assuring that the authorized amount of incidental take is not exceeded.
 - e. If levels of turbidity do not exceed the above levels during the first hour, then monitoring may be reduced to once every hour during sediment-generating activities.
 - f. If, in cooperation with other permit authorities, the Corps develops a functionally equivalent monitoring strategy (e.g., intensive monitoring by project area or activity, followed by validation and routine monitoring), they may submit this plan to the Service for review and approval in lieu of the above monitoring requirements. This

strategy must be submitted to the Service a minimum of 60 days prior to construction. In order to be approved for use in lieu of the above requirements, the plan must meet each of the same objectives.

2. To implement Reasonable and Prudent Measure 2, the Corps shall:

- a. Prepare a report identifying any incidental take associated with project activities and describing conservation measures implemented to minimize take. The report shall include a description of construction activities conducted, the duration of all construction activities, conservation measures implemented, and the following:
 - i. Results of project site isolation and dewatering. Data shall include the following: 1) dates and description of construction related activities such as installation and removal of the in-water cofferdams; 2) area of substrate covered by supersacks and sediment berms; 3) means and methods of fish capture; 4) species and number of fish captured; 5) if electrofishing is used, provide settings and estimated duration of use; and 6) whether any sign of bull trout injury was visible.
 - ii. Results of surface water quality monitoring (focused on turbidity and suspended sediments) required during construction. Data shall include, at a minimum, the following: 1) dates, times, and locations of construction activities; 2) monitoring results, sample times, locations, and measured turbidities (in NTUs); 3) a summary of construction activities and measured turbidities associated with those activities; and 4) a summary of corrective actions taken to reduce turbidity.

The report shall be submitted to the Service's office in Lacey, Washington, by December 31, 2019. The report shall summarize the Corps' compliance with the project description and conservation measures and the level of exempted incidental take during the implementation of the project.

The Service is to be notified within three working days upon locating a dead, injured, or sick endangered or threatened species. Initial notification must be made to the nearest U.S. Fish and Wildlife Service Law Enforcement Office. Notification must include the date, time, precise location of the injured animal or carcass, and any other pertinent information. Care should be taken in handling sick or injured specimens to preserve biological materials in the best possible state for later analysis of cause of death, if that occurs. In conjunction with the care of sick or injured endangered or threatened species or preservation of biological materials from a dead animal, the finder has the responsibility to ensure that evidence associated with the specimen is not unnecessarily disturbed. Contact the U.S. Fish and Wildlife Service Law Enforcement Office at (425) 883-8122, or the Service's Washington Fish and Wildlife Office at (360) 753-9440.

NMFS

2.9.4 Terms and Conditions

The terms and conditions described below are non-discretionary, and the Corps or any applicant must comply with them in order to implement the RPMs (50 CFR 402.14). The Corps or any applicant has a continuing duty to monitor the impacts of incidental take and must report the progress of the action and its impact on the species as specified in this ITS (50 CFR 402.14). If the entity to whom a term and condition is directed does not comply with the following terms and conditions, protective coverage for the proposed action would likely lapse.

1. To implement Reasonable and Prudent Measure 1, the Corps shall ensure that:
 - a. Monitoring will be conducted to establish background turbidity levels upstream of construction and away from the influence of sediment-generating activities. Background turbidity will be monitored at least twice daily during sediment-generating activities. In the event of a visually appreciable change in background turbidity, an additional sample will be taken.
 - b. Turbidity monitoring will be conducted at a distance of 1,500 feet downstream of in-water construction activities.
 - c. Monitoring will be conducted at 30-minute intervals for the first 3 hours from the start of sediment-generating activities. If the background NTU levels are exceeded by the following levels, then the amount of take authorized by the Incidental Take Statement will have been exceeded and sediment-generating activities will cease.
 1. If background NTU levels are exceeded by 56 NTU at any time.
 2. If background NTU levels are exceeded by 37 NTU for more than 1 hour cumulatively over a 10-hour workday.
 3. If background NTU levels are exceeded by 13 NTU for more than 3 hours cumulatively over a 10-hour workday.
 4. If background NTU levels are exceeded by 8 NTU for more than 7 hours cumulatively over a 10-hour workday.

- d. If turbidity levels approach the above-listed NTU values, work will cease and the sediment control procedures will be reevaluated. Sediment and erosion control measure shall be modified to reduce turbidity levels. The Corps will contact the Service's consulting biologist to discuss means of assuring that the authorized amount of incidental take is not exceeded.
 - e. If levels of turbidity do not exceed the above levels during the first hour, then monitoring may be reduced to once every hour during sediment-generating activities.
 - f. If, in cooperation with other permit authorities, the Corps develops a functionally equivalent monitoring strategy (e.g., intensive monitoring by project area or activity, followed by validation and routine monitoring), they may submit this plan to the NMFS for review and approval in lieu of the above monitoring requirements. This strategy must be submitted to NMFS a minimum of 60 days prior to construction. In order to be approved for use in lieu of the above requirements, the plan must meet each of the same objectives.
2. To implement reasonable and prudent measure 2, the COE shall ensure that:
 - a. The NMFS is to be notified when construction starts.
 - b. Personnel conducting fish exclusion will have the necessary training, knowledge, skills and abilities to ensure the safe handling of all ESA listed fish.
 - c. Fish exclusion is to be conducted only by or under the direct supervision of a trained and experienced fishery biologist.
 - d. Personnel will regularly check block nets for impinged or dead fish.
 3. To implement reasonable and prudent measure 3, the COE shall ensure that:
 - a. The applicant abides by the protocol for fish capture and handling described in Appendix A.
 - b. The applicant reports on all fish captured and handled as required in Appendix A.
 4. To implement reasonable and prudent measure 4, the Corps will ensure that:
 - a. The amount and extent of take is monitored by preparing a report identifying any incidental take associated with project activities and describing conservation measures implemented to minimize take. The report shall include a description of construction activities conducted, the duration of all construction activities, conservation measures implemented, and the following:

- i. Results of surface water quality monitoring (focused on turbidity and suspended sediments) required during construction. Data shall include, at a minimum, the following: 1) dates, times, and locations of construction activities; 2) monitoring results, sample times, locations, and measured turbidities (in NTUs); 3) a summary of construction activities and measured turbidities associated with those activities; and 4) a summary of corrective actions taken to reduce turbidity.
- ii. Dates and description of construction related activities such as 1) installation and removal of the in-water cofferdams; 2) means or methods of fish capture used; 3) species and number of fish captured; and 4) if electrofishing is used, provide settings and estimated duration of use.
- iii. The report shall be submitted to the NMFS office in Seattle, Washington, by December 31 of the year during which construction took place.

1.1 Notification

Ten days prior to initiation of the in-water work, written notification will be sent to:

- The Puyallup Tribe of Indians
- Washington Department of Fish and Wildlife
- US Fish and Wildlife Service,
- National Marine Fisheries Service
- US Army Corp of Engineers
- Pierce County
- Puget Sound Energy

Electron Hydro Intake Project

DATE: Oct 28th 2012

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	Morning	Afternoon
Weather:	Clear	Sunny
Precipitation:	0	0
River Level:	375	360
Sample Location	1	2
Upstream Sample Point #1		
time	6:00 AM	7:00 AM
NTU	9.6	10.1
Turb Color	Clear	Clear
pH	-	-
Description of work performed	In river work started using crabs & shovels	Crabs pulling out rocks shovels
Downstream Sample Point #2		
time	6:15	7:15
NTU	9.4	8.7
NTU Δ from #1	- .4	- 1.4
Turb Color	Clear	Clear
pH	-	-
pH Δ from #1	-	-
Description of work performed	Braking work for Aarin	Braking work for Aarin

Downstream Sample Point #2

time	6:15	7:15	8:45	9:15	9:45	10:15	10:45	11:20	11:45	12:10	12:40
NTU	9.4	8.7	72.0	72.3	12.6	13.0	12.5	12.6	13.0	13.6	16
NTU Δ from #1	- .4	- 1.4	+2.6	+9.5	+5.4	+5.2	+5.5	+6.5	+7.1	+7.1	+10.1
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Light Brown
pH	-	-	-	-	-	-	-	-	-	-	-
pH Δ from #1	-	-	-	-	-	-	-	-	-	-	-
Description of work performed	Braking work for Aarin	Braking work for Aarin									

Notes: Cows started in river work @ 7:00 downstream of wood apron & fish ladder. At upstream river gage (Point 1) turbidity observed in downstream of fish ladder. Worked for Visual @ 7:00 & water @ #1 & #2 sample points. C 9:00 am turb. crested. Seine haul informed them work ceased. At 11:15通知 them (cows) levels still exceeded state level, cows level with farm. Equipment completed @ 11:15 noticed them (cows) levels still exceeded state level (at 10:30 am). 12:00 - 1:00 (cows) continued to adjust rock lots down downstream fence lines, & last lots thru option. Cows also removed lots of wood spilt away.

Signature: 

By my signature I certify that this report is accurate and true as witnessed.

Electron Hydro Intake Project

DATE: Oct 28th 2010

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(Conveyance Channel) Sample Point #3												
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	7:00 a.m.											
NTU												
Turb Color												
pH												
Description of work performed												

(300' Dnstream from work area) Sample Point #4

(300' Dnstream from work area) Sample Point #4											
time	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00
NTU											
Turb Color	Clear	Clear	Clear	Clear	Clear	Light Blue	Light Blue	Blue	Blue	Blue	Blue
pH											
Description of work											

(Dnstream Pump from Abutment) Sample Point #5

(Dnstream Pump from Abutment) Sample Point #5											
time	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00
NTU											
Turb Color											
pH											
Description of work											

Notes: * 900' downstream of work area, noticed foliage on Right side of river bank for water west of clear area, the tilled ground green in the sand bar & by 4:00 pm was 6' of charcoal right to left.

Observed by (print): Chey Klepe
By my signature I certify that this report is accurate and true as witnessed.

Signature: Chey Klepe

Electron Hydro Intake Project

DATE: Oct 19th 2020

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Sample Location		1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3													
time													
NTU													
Turb Color													
pH													
Description of work performed													

(300' Dnstream from work area) Sample Point #4

time		7:00	8:00	9:00	10:00	11:00							
(Dnstream Pump from Abutment) Sample Point #5													
NTU		-	-	-	-	-							
Turb Color		tan	tan	tan	tan	tan							
pH		-	-	-	-	-							
Description of work													

Notes:

Crew 2 for 300' downstream. C 600m upstream became too hot to see the ladder. Hill Sighted C #1 & #2 until C was stopped working @ 11:00pm

Loren Klope
Observed by (print): *Loren Klope*

By my signature I certify that this report is accurate and true as witnessed.

[Signature]

Signature: *[Signature]*

Electron Hydro Intake Project

DATE: Oct 28th 2010

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	Morning	Afternoon										
Weather:												
Precipitation:												
River Level:												
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	1:00	1:30	2:00	2:30	3:05	3:30	4:00	4:30	5:00	5:30	6:05	6:30
NTU	5.4	5.8	5.8	5.8	5.7	5.7	5.5	5.8	5.8	5.2	5.4	5.4
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
pH	-	-	-	-	-	-	-	-	-	-	-	-
Description of work performed	In river	4	Graveling rock & up stream dry bank	4	Placing rock for	4	4	4	4	4	4	4
	Downstream				Cutting							
	Cleaning				DS Lances							
	Fish Ledge											
Downstream Sample Point #2												
time	1:10	1:15	2:15	2:40	3:20	3:50	4:15	4:45	5:15	5:45	6:20	6:50
NTU	16.6	23.6	24.0	23.3	22.2	20.0	39.0	39.3	22.0	23.0	25.3	
NTU Δ from #1	+10.7	+17.8	+18.2	+7.5	+6.5	+6.3	+33.5	+33.2	+33.8	+6.8	+12.6	+12.4
Turb Color	Light Brown	Light Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Light Brown	Light Brown	Light Brown
pH	-	-	-	-	-	-	-	-	-	-	-	-
pH Δ from #1	-	-	-	-	-	-	-	-	-	-	-	-
Description of work performed	4	4	4	4	4	4	4	4	4	4	4	4

Notes: None was not able multiple times throughout the day that turbidity was out of compliance, and during time from 2:30 to 5:30 was reading above 56 NTU. None notified to leave work given time frame & no further owner close to intake with other activity to inspecton: finish project!

Oil Sheen:

Grey Sheen

Observed by (print):

Signature: 

By my signature I certify that this report is accurate and true as witnessed.

Electron Hydro Intake Project

DATE: Oct 28th 2020

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	Morning	Afternoon										
Weather:												
Precipitation:												
River Level:												
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	7:00 pm	7:35	8:05	8:40	9:05	9:30	10:05	10:30	11:05	11:40	12:05	
NTU	5.4	5.5	5.3	6.6	6.6	6.8	6.8	6.5	6.5	6.5	6.3	
Turb Color	Clear											
pH	-	-	-	-	-	-	-	-	-	-	-	
Description of work performed	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	Gen's Pkbl crew moving Red dock to steel scrm	
Downstream Sample Point #2												
time	7:35	7:30	8:20	8:50	9:15	9:45	10:15	10:45	11:15	11:30	10:45	
NTU	25.0	24.5	23.6	24.6	24.0	24.0	24.0	23.0	23.0	23.0	24.5	
NTU Δ from #1	19.6	19	18.3	18.0	17.4	17.2	17.2	16.8	16.8	16.8	18.2	
Turb Color	Light Brn											
pH	-	-	-	-	-	-	-	-	-	-	-	
pH Δ from #1	-	-	-	-	-	-	-	-	-	-	-	
Description of work performed	/	/	/	/	/	/	/	/	/	/	/	

Notes: After 8:00 visibility became hazy to see color, colors were determined by flash light.

Equipment
Inspector:

Oil Sheen:

Observed by (print): *Lorey*
By my signature I certify that this report is accurate and true as witnessed.

Signature: *Klepne*

Electron Hydro Intake Project

DATE: Oct 27 2000

Page: 1 of 2

	Morning	Afternoon										
Weather:	Cloudy	Sunny										
Precipitation:	0											
River Level:	783											
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	6:00	9:45	12:30	4:30	5:30							
NTU	5.1	7.0	5.0	4.4	2.4							
Turb Color	Clear	Clear	Clear	Clear	Clear							
pH	-	-	-	-	-							
Description of work performed	removing line of trash	yellow coffee	Yellow coffee	slope top of upstream	clear up							
Dristream Sample Point #2												
time	6:10	10:00	12:30	4:45	5:45							
NTU	5.4	7.0	6.7	9.2	7.7							
NTU Δ from #1	+0.3	-0.3	Δ: 0	Δ: 0.7	Δ: 0.4							
Turb Color	Clear	Clear	Clear	Clear	Clear							
pH	-	-	-	-	-							
pH Δ from #1	-	-	-	-	-							
Description of work performed	removing surface debris	Yellow coffee	Yellow coffee	pink	clear up							

Notes: - Crew continued to remove line, tank, & yellow debris from Coffe Dam. - After removal, Everyone stepped off top of Coffe dam to ensure boulders removed.

Equipment Inspected:
long lead

Oil Sheen: None observed;
Observed by (print): Loren Kline
By my signature I certify that this report is accurate and true as witnessed.

Signature: 

EH-USA001370

Electron Hydro Intake Project

DATE: Oct 22 2020

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Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time												
NTU												
Turb Color												
pH												
Description of work performed												

(300' Driftstream from work area) Sample Point #4

time	10:30	10:45	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	1:00	1:15
NTU	-	-	-	-	-	-	-	-	-	-	-	-
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
pH	-	-	-	-	-	-	-	-	-	-	-	-
Description of work performed	Remove debris	Vegan	Shovel	Grape								

(Downstream Pump from Abutment) Sample Point #5

time												
NTU												
Turb Color												
pH												
Description of work performed												

Notes:

Signature: Observed by (print): **Larry Klop**
By my signature I certify that this report is accurate and true as witnessed.

Electron Hydro Intake Project

DATE: Oct 16 2010

Page: 1 of 2

	Morning	Afternoon	
Weather:	Clear	Sunny	
Precipitation:	0	0	
River Level:	320	320	360
Sample Location	1	2	3
Upstream Sample Point #1			
time	7:00	8:55	11:50
NTU	6.1	8.0	4.7
Turb Color	Clear	Clear	Clear
pH	-	-	-
Description of work performed	Remove line lift	remove turf turf	
Dnstream Sample Point #2			
time	7:10	9:10	11:00
NTU	7.4	7.3	8.0
NTU Δ from #1	+1.3	-7	+3.3
Turb Color	Clear	Clear	Clear
pH	-	-	-
pH Δ from #1	-	-	-
Description of work performed	/	/	/

Notes: stability was relatively low, unusual fluctuation in backflow possible due to movement up river under this.

Equipment Inspector: (Dated)

Oil Sheen:

Observed by (print): *Day Keppe*
By my signature I certify that this report is accurate and true as witnessed.

Signature: *J*

Electron Hydro Intake Project

DATE: Oct 26 2020

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(Conveyance Channel) Sample Point #3

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color												
pH												
Description of work performed												

(300' Dnstream from work area) Sample Point #4

time	2:30	9:15	12:15	4:20
NTU	-	-	-	-
Turb Color	Clear	Clear	Clear	Clear
pH	-	-	-	-
Description of work performed	Remove tire tire	Remove tire tire	Remove tire tire	Remove tire tire
(Dnstream Pump from Abutment) Sample Point #5				
time				
NTU				
Turb Color				
pH				
Description of work				
Notes:				

Observed by (print): *Larry Kloppe*
 By my signature I certify that this report is accurate and true as witnessed.

Signature: *Larry Kloppe*

Electron Hydro Intake Project

DATE: Oct 25 2010

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	Morning	Afternoon													
Weather:	Clear	Sunny													
Precipitation:	0	0													
River Level:	620	475	450	450	450	450	450	450	450	450	450	450	450	450	450
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12			
Upstream Sample Point #1															
time	7:30	8:00	9:00	10:00	10:30	11:00	11:30	12:00	12:30	1:00	2:45	3:15			
NTU	11.0	11.0	11.0	10.5	9.5	10.0	10.0	9.5	9.5	9.5	9.5	9.0			
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear			
pH	-	-	-	-	-	-	-	-	-	-	-	-			
Description of work performed	Excavate W stream Build up Cofferdam	Rock placed to connect wall to left	Began to work plant tree	Began to work plant tree	Excavate river Bank up Cofferdam										
Dnstream Sample Point #2															
time															
NTU	11.0	11.0	11.5	11.0	8.0	8.0	8.0	160.0	165.0	165.0	165.0	165.0			
NTU Δ from #1	0	0	+0.5	+0.5	+2.5	+2.5	+2.5	+150	+150	+150	+150	+150			
Turb Color	Clear	Clear	Clear	Clear	Light Brn	Light Brn	Light Brn	Brown	Brown	Brown	Brown	Brown			
pH	-	-	-	-	-	-	-	-	-	-	-	-			
pH Δ from #1	-	-	-	-	-	-	-	-	-	-	-	-			
Description of work performed															
Notes:	Crews started @ 7:30 in river work. Building up to the dam up stream. Crews also opened up downstream creek. Crew w/ Fish Biologist + WDFW personnel on fish ladder for poop when over diversion Equipment: Pumped Inspector: None observed														

Oil Sheen: None observed
 Observed by (print):
 By my signature I certify that this report is accurate and true as witnessed.

Signature: 
 EH-USA001374

Electron Hydro Intake Project

DATE: Oct 25 2000

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Sample Location (Conveyance Channel) Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color												
pH												
Description of work performed												

(300' Dnstream from work area) Sample Point #4	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color												
pH												
Description of work												

(Dnstream Pump from Abutment) Sample Point #5	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color												
pH												
Description of work												

Notes:	• Fire hydrant started @ 10:30, observed turb's discharge
	• Not allowed operators to leave work, per WO/HF.
	• Operator began working again @ 10:50. Notified owner of turb discharge to leave work for 30 min.
	• Reported that owner claims WO/HF. Owner made decision to leave system & close off one channel (R side)
	• turbidity stopped gone, owner decided to flush system & diversion le valve w/ WO/HF personnel.

Observed by (print): John M. Heffner
By my signature I certify that this report is accurate and true as witnessed.

Signature: John M. Heffner

Electron Hydro Intake Project

DATE: Oct 25 2020

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	Morning	Afternoon
Weather:		
Precipitation:		
River Level:		
Sample Location	1	2
Upstream Sample Point #1		
time	4:15	
NTU	12	
Turb Color	Clear	
pH	-	
Description of work performed	OLIVE X Nitrification Leach down	
Dnstream Sample Point #2		
time	4:30	
NTU	11.0	
NTU Δ from #1	+ 1.0	
Turb Color	Brown	
pH	-	
pH Δ from #1	-	
Description of work performed	Nitrification Leach down	

Notes: News on fish killer screen for fish one R side channel blocked off.

Equipment
Inspector:

Oil Sheen:

Observed by (print): Don Kep
By my signature I certify that this report is accurate and true as witnessed.

Signature: Don Kep

Electron Hydro Intake Project

DATE: Oct 25 2000

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Sample Location (Conveyance Channel) Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color												
pH												
Description of work performed												

(300' Dnstream from work area) Sample Point #4

Sample Location (Dnstream Pump from Abutment) Sample Point #5	1	2	3	4	5	6	7	8	9	10	11	12
time	4:36											
NTU	~											
Turb Color	Chlorine											
pH	~											
Description of work performed	Refuge lock down											
Notes:												

Observed by (print): *Lorey Kline*
 By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Electron Hydro Intake Project

DATE: Oct 24 2010

Page: 1 of 2

	Morning	Afternoon										
Weather:	Cloudy	Overcast										
Precipitation:	0.5	0.5										
River Level:	1500	1400										
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	6:00	1:00	4:00									
NTU	883	90.2	76.0									
Turb Color	Light Brn	Light Brn	Light Brn									
pH	-	-	-									
Description of work performed	grout holes in wall	ref. for divert	ll	4								
Dnstream Sample Point #2												
time	6:30	1:15	4:30									
NTU	23.3	25	20.0									
NTU Δ from #1	-15.0	-5	-5									
Turb Color	Light Brn	Light Brn	Light Brn									
pH	-	-	-									
pH Δ from #1	-	-	-									
Description of work performed	ll	ll	ll	ll	ll	ll	ll	ll	ll	ll	ll	ll

Notes: Metal river level increase river was brown.

Equipment Completed
Inspector: *None observed*

Oil Sheen:

Observed by (print): *Drey Kleine*
By my signature I certify that this report is accurate and true as witnessed.

Signature: *[Signature]*

Electron Hydro Intake Project

DATE: Dec 24 2020

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time												
NTU												
Turb Color												
pH												
Description of work performed												

(300' Drstream from work area) Sample Point #4

time	<u>1:14:5</u>	<u>1:12:5</u>	<u>4:45</u>									
NTU												
Turb Color	<u>Light Bln</u>	<u>Light Bln</u>	<u>Light Bln</u>									
pH												
Description of work												
(Drstream Pump from Abutment) Sample Point #5												
time												
NTU												
Turb Color												
pH												
Description of work												
Notes:												

Observed by (print): J. H. Klemm
By my signature I certify that this report is accurate and true as witnessed.

Signature: J. H. Klemm

Electron Hydro Intake Project

DATE: Oct 23 2010

Page: 1 of 2

	Morning	Afternoon										
Weather:	Cloudy											
Precipitation:	.5	.5										
River Level:	1900	1900										
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	8:00	12:30	4:00									
NTU	10.0	10.0	9.35									
Turb Color	Clear	Clear	Clear									
pH	-	-	-									
Description of work performed	Sp. Grav Buildup Upstream	Closed channel (Alladin)										
Dnstream Sample Point #2												
time	8:20	12:45	4:10									
NTU	10.0	9.5	9.5									
NTU Δ from #1	0	-5	-5									
Turb Color	Clear	Clear	Clear									
pH	-	-	-									
pH Δ from #1	-	-	-									
Description of work performed	Front wall holes	" "	" "									

Notes: - Closed channel in one
 - removed pumps holes filled in
 - was also granted holes on abutment wall, no turbid discharge observed,

Equipment
Inspector: Completed

Oil Sheen: none observed

Observed by (print): Lori Kelle

By my signature I certify that this report is accurate and true as witnessed.

Signature: Lori Kelle

Date: 10/23/10

Electron Hydro Intake Project

DATE: Oct 23 2020

Page: 2 of 2

(300' downstream from work area) Sample Point #4				
time	NTU	Turb Color	pH	Description of work
8:30	12.55	Clear	7.0	Work
4:30				

(Drainage Pump from Abutment) Sample Point #5	
time	
NTU	
Turb Color	
pH	
Description of work	

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

二〇

Chas. H. Smith

e: —

Electron Hydro Intake Project

DATE: Oct 22 2000

Page: 1 of 2

	Morning	Afternoon
Weather:	Cloudy	Windy
Precipitation:	0	0
River Level:	400	392
Sample Location	1	2
Upstream Sample Point #1		
time	5:00 Am	7:30 Am
NTU	8.0	7.7
Turb Color	Clear	Clear
pH	-	-
Description of work performed	Placing rock On stream bed	None
Dnstream Sample Point #2		
time	5:35 Am	7:45
NTU	2.4	7.6
NTU Δ from #1	.6	.1
Turb Color	Clear	Clear
pH	-	-
pH Δ from #1	-	-
Description of work performed	Placing rock Walls of wall	None

Notes:

Crews focused on putting rock on upstream side of sheet pile.
 No turbidity observed. Also crews of putting embankment boulders in wall.

Equipment Inspecton:
 I inspected

Oil Sheen:
 None observed

Observed by (print):
 Lucy Kope

By my signature I certify that this report is accurate and true as witnessed.

Signature:



Electron Hydro Intake Project

DATE: Oct 22 2006

Page: 2 of 2

(Conveyance Channel) Sample Point #3

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	5:45	7:50	11:55									
NTU	9.2	8.0	7.5									
Turb Color	Clear	Clear	Clear									
pH												
Description of work performed												

(300' Dnstream from work area) Sample Point #4

time	7:50											
NTU												
Turb Color	Clear	Clear	Clear									
pH												
Description of work												

(Driftream Pump from Abutment) Sample Point #5

time												
NTU												
Turb Color												
pH												
Description of work												
Notes:												

Observed by (print): Loriy Kline

By my signature I certify that this report is accurate and true as witnessed.

Signature:



Electron Hydr~ Intake Project

DATE: Oct 12 2010

Page: 1 of 2

	Morning	Afternoon										
Weather:	Cloudy	Sunny										
Precipitation:	0	0										
River Level:	4.00	3.92										
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	5:00	3:20	1:30									
NTU	8.0	7.7	2.1									
Turb Color	green	green	green									
pH	-	-	-									
Description of Work performed	Hilling Cut Up Stream	Filling embeds w/ gravel										

	Morning	Afternoon										
Weather:	Cloudy	Sunny										
Precipitation:	0	0										
River Level:	4.00	3.92										
Sample Point #2												
time	5:15	2:43	1:45									
NTU	7.4	7.8	7.0									
NTU Δ from #1	-1.6	+1	-1									
Turb Color	green	green	green									
pH	-	-	-									
PH Δ from #1	-	-	-									
Description of Work performed	Hilling Cut Up Stream	Filling embeds w/ gravel										

Notes: losses adding rock upstream of spillway,
 - green filling substrate holes for embankments w/ gravel.

Equipment Inspecton:
Completed

Oil Sheen: None observed

Observed by (print): *Loren Klope*

By my signature I certify that this report is accurate and true as witnessed.

Signature: *Loren Klope*

Loren Klope

Electron Hydr~ Intake Project

DATE: Oct 22 2020

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time	5:45	7:50	1:55									
NTU	0.2	8.0	7.5									
Turb Color	Clear	Clear	Clear									
pH	-	-	-									
Description of work performed												

(300' Dnstream from work area) Sample Point #4												
time	6:00	8:00	2:00									
NTU	-	-	-									
Turb Color	Clear	Clear	Clear									
pH	-	-	-									
Description of work performed												

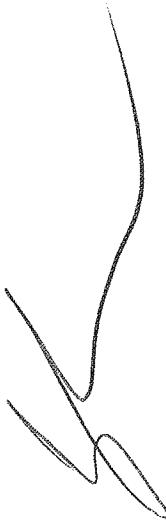
(Dnstream Pump from Abutment) Sample Point #5												
time	-	-	-									
NTU	-	-	-									
Turb Color	-	-	-									
pH	-	-	-									
Description of work performed												

Notes: • Site inspection: Army Ave, County, went well.

Observed by (print): *Drey Klopke*

By my signature I certify that this report is accurate and true as witnessed.

Signature: *[Signature]*



Electron Hydro Intake Project

DATE: Oct 21 2020

Page: 1 of 2

	Morning	Afternoon													
Weather:	Overcast	Overcast													
Precipitation:	0	0													
River Level:	600	590	590	583	570	570	565	565	560	560	560	560	560	560	560
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12			
Upstream Sample Point #1															
time	5:00	10:15	10:45	11:56	1:00	2:04	3:00	3:55	4:56	6:00					
NTU	11.5	11.6	11.0	10.66	11.33	11.0	10.66	10.33	10.0	9.60					
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
pH	-	-	-	-	-	-	-	-	-	-					
Description of work performed															
Dnstream Sample Point #2															
time	5:15	10:25	10:55	12:20	1:16	2:25	3:22	4:12	5:04	6:15					
NTU	11.5	11.0	11.0	10.33	9.43	11.0	11.0	9.83	9.60	9.60					
NTU Δ from #1	0	-1	0	-3.3	-1.90	0	+44	-50	-4	-1					
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
pH	-	-	-	-	-	-	-	-	-	-					
pH Δ from #1	-	-	-	-	-	-	-	-	-	-					
Description of work performed															

Notes: * Gens worked large line (100') to outside of stream for rest glass and project finished. Suctile welding installed rock on downstream side of spillway.
 Equipment completed
 Inspector: Comptroller
 Oil Sheen: None observed
 Observed by (print): John Kelle
 By my signature I certify that this report is accurate and true as witnessed.

Signature: J. Kelle
 EH-USA001386

Electron Hydro Intake Project

DATE: Oct 21 2020

Page: 2 of 2

Sample Location (Conveyance Channel) Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time	5:35	10:34	11:04	12:32	1:22	2:30	3:30	4:20	5:15	6:27		
NTU	11.2	22.3	22.0	22.0	24.0	24.66	24.0	21.66	22.66	22.30		
Turb Color	Clear											
pH	-	-	-	-	-	-	-	-	-	-		
Description of work performed												

(30' Dnstream from work area) Sample Point #4	1	2	3	4	5	6	7	8	9	10	11	12
time	5:40	6:40	11:10	12:40	1:30	2:45	3:40	4:25	5:25	6:45		
NTU	-	-	-	-	-	-	-	-	-	-		
Turb Color	Clear											
pH	-	-	-	-	-	-	-	-	-	-		
Description of work performed												

(Dnstream Pump from Abutment) Sample Point #5	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color												
pH												
Description of work performed												

Notes: Under test coming down work site, but as crews worked to close channel, sediment was light disturbed, which resulted in higher sample #3 NTU readings than typical.
No impact of sign. & cone @ sample #2. Monitored throughout day to ensure compliance.

Observed by (print): Corey Klepper
By my signature I certify that this report is accurate and true as witnessed.

Signature: [Signature]

Electron Hydro Intake Project

DATE: Oct 20 2020

Page: 1 of 2

	Morning	Afternoon										
Weather:	Cloudy	Sunny										
Precipitation:	0	0										
River Level:	6' 8.5	6' 8.5										
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	5:00 am	7:00 am	4:00 pm									
NTU	22.6	12.5	11									
Turb Color	Semi clear	Semi clear	Clear									
pH	-	-	-									
Description of work performed	Stackpiling	Welding	Welding	Welding	Welding	Welding	Welding	Welding	Welding	Welding	Welding	Welding
Dnstream Sample Point #2												
time	5:15	7:10	4:10 pm									
NTU	22.0	12.5	11.0									
NTU Δ from #1	- 6	- 0	0									
Turb Color	Semi clear	Semi clear	Clear									
pH	-	-	-									
pH Δ from #1	-	-	-									
Description of work performed	Stackpiling	Welding	Welding	Welding	Welding	Welding	Welding	Welding	Welding	Welding	Welding	Welding

Notes: - Continued installing sheet piling
 - moving rock for rock spilling

Equipment completed
 inspection:

Oil Sheen: None observed
 Observed by (print): Loren Klope
 By my signature I certify that this report is accurate and true as witnessed.

Signature:

Electron Hydro Intake Project

DATE: Oct 20 2000

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time	5:35	7:40	4:10									
NTU	19.0	13.0	10									
Turb Color	Semi clear	Clear	Clear									
pH	-	-	-									
Description of work performed												

(300' Driftstream from work area) Sample Point #4												
time	7:45	4m	1:30	5:30pm								
NTU	-	-	-	-								
Turb Color	Clear	Clear	Clear									
pH	-	-	-	-								
Description of work performed												

(Driftstream Pump from Abutment) Sample Point #5												
time												
NTU												
Turb Color												
pH												
Description of work performed												

Notes:

channel water not coming from work site, found water deeper than river.

Observed by (print): Craig Klepe
 By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Electron Hydro Intake Project

DATE: Dec 19 2010

	Morning	Afternoon	
Weather:	Cloudy	Cloudy	
Precipitation:	0	0	
River Level:	640	640	685
Sample Location	1	2	3
Upstream Sample Point #1		4	5
time	7:15 Am	4:00 pm	7:00 pm
NTU	103	41	38
Turb Color	Light Brown	Light Brown	Light Brown
pH	-	-	-
Description of work performed	Test all sheet piles	v	v

Dnstream Sample Point #2				
time	7:25	4:10	2:15	
NTU	qds	39	37	
NTU Δ from #1	-13	-2	-2	
Turb Color	Light Brn	Light Brn	Light Brn	
pH	-	-	-	
pH Δ from #1	-	-	-	
Description of work performed	Capping tire back to spillway	"	"	"

- Vans installed sheet piling to rock Spillway.
- Cross capped off concrete tie back between abutment wall & Spillway.

Equipment Inspection:

Oil Sheen: None - observed
Observed by (print): Corrie C

Signature:

Observed by (print): Conny Hege
By my signature I certify that this report is accurate and true as witnessed.

EH-USA001390

Electron Hydro Intake Project

DATE: Oct 11 2000

Page: 2 of 2

(Conveyance Channel) Sample Point #3

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	7:35 AM	7:20	7:25									
NTU	34	24	20									
Turb Color	Clear	Clear	Clear									
pH	-	-	-									
Description of work performed	Install Screws	"	"	"	"	"	"	"	"	"	"	"

(300' Dnstream from work area) Sample Point #4

time	7:40	4:28	7:30									
NTU	-	-	-									
Turb Color	Light	Light	Clear									
pH	-	-	-									
Description of work												

(Dnstream Pump from Abutment) Sample Point #5

time												
NTU												
Turb Color												
pH												
Description of work												

Notes:

* water is channel not coming from worksite, likely ground water color light brown, clearer than river in appearance. Cleaned up towards end of day.

Observed by (print): Corey Klepe

By my signature I certify that this report is accurate and true as witnessed.

Signature: JG

Electron Hydro Intake Project

DATE: Oct 18 2020

Page: 1 of 2

	Morning	Afternoon										
Weather:	Partly Cloudy	Partly Cloudy										
Precipitation:	0"	0"										
River Level:	2000	1450	2400									
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	7:00 AM	1:00 PM	4:00									
NTU	750	800	650									
Turb Color	Brown	Brown	Brown									
pH	~	~	~									
Description of work performed	Total & Scale X	" "	" "									
Dnstream Sample Point #2												
time	7:15	1:15	4:15									
NTU	700	800	800									
NTU Δ from #1	-50	0	-50									
Turb Color	Brown	Brown	Brown									
pH	~	~	~									
pH Δ from #1	~	~	~									
Description of work performed	" "	" "	" "									

Notes: - Inspecting seal for bulk spilling all day
 No observe turbidity, river has high flow & dirty.

Equipment: Longlevel.
 Inspection:

Oil Sheen: None observed, no sheen on spot from 10/17 spill either.

Observed by (print): Lorenz Kleffke

By my signature I certify that this report is accurate and true as witnessed.

Signature: [Signature]

Electron Hydro Intake Project

DATE: Oct 18 2000

Page: 1 of 2

(Conveyance Channel) Sample Point #3

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	7:15 ^a	1:25p	4:25p									
NTU	12.0	16.0	20.0									
Turb Color	Clear	Clear	Clear									
pH												
Description of work performed	In & off for sampling	"	"	"	"							
(300' Dnstream from work area) Sample Point #4												
time	7:40A ^a	1:45p	5:00p ^a									
NTU	—	—	—									
Turb Color	Light Tan	Light Tan	Light Tan									
pH												
Description of work	"	"	"	"	"							
(Dnstream Pump from Abutment) Sample Point #5												
time												
NTU												
Turb Color												
pH												
Description of work												
Notes:	<i>#5 not discharging to channel.</i>											

Lorey Lohf

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

Signature:

Electron Hydro Intake Project

DATE: Oct 17 2020

Page: 1 of 2

	Morning	Afternoon	
Weather:	Light Rain	Light Rain	
Precipitation:	5 mm	5 mm	
River Level:	540	550	550
Sample Location	1	2	3
Upstream Sample Point #1			
time	6:15	8:01	9:36
NTU	763.0	170.0	80.0
Turb Color	Milky Brn	Milky Brn	Milky Brn
pH	-	7.30	-
Description of work performed	Warming & inspectors	Pouring concrete	Concrete back off wall to 2" away
Dnstream Sample Point #2			
time	6:40	8:09	9:48
NTU	160.0	100.0	90.0
NTU Δ from #1	-103.0	-50.0	-30.0
Turb Color	Milky Brn	Milky Brn	Milky Brn
pH	-	7.31	-
pH Δ from #1	-	+01	-
Description of work performed	"	"	"

Notes: • Concrete pouring started @ 7 am. Ended by 6:00 pm
 • River turbulent → 14 @ 800 pump #2 return concrete 8.01

Equipment inspection:
 completed

Oil Sheen: ✓ Quant of greatest spill on beach very sparse immediately. w/ spill Kit & scrap up off
 Observed by (print): Loren Neff
 By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Electron Hydro Intake Project

DATE: Oct 17 2020

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time	6:40	8:15	9:52	12:14	2:45							
NTU	16.5	17.0	16.0	14.0	14.0							
Turb Color	Clear	Clear	clear	clear	clear							
pH	-	-	-	-	-							
Description of work performed	Prep for pouring concrete	"	"	"	"							

(300' Dnstream from work area) Sample Point #4												
time	7:00	8:30	9:30	10:30	11:30	1:00	2:00	3:15	4:30	5:30	6:00	
NTU	-	-	-	-	-	-	-	-	-	-	-	
Turb Color	Clear											
pH	-	-	-	-	-	-	-	-	-	-	-	
Description of work												
(Dnstream Pump from Abutment) Sample Point #5												
time												
NTU												
Turb Color												
pH												
Description of work												

Notes: #5 not sampled as no discharge to channel. water minimum is chosen.

#4 Sample point at 2:30 8.30 | 9:12 | 9:30 | 10:15 | 12:44 | 1:30pm | 4:10
① no point did it exceed 10mp. mle

Observed by (print): Long Keppe
By my signature I certify that this report is accurate and true as witnessed.

Signature: J

Electron Hydro Intake Project

DATE: 10-16-2020

Page: 1 of 2

	Morning	Afternoon
Weather:	Cloudy	Rain
Precipitation:	1.25 in	1.25 in
River Level:	1990	1100
Sample Location	1	2
Upstream Sample Point #1		
time	7:20A	10:36 AM
NTU	7.4	27.0
Turb Color	Brown	Brown
pH	-	-
Description of work performed	Carpentry on face of wall	" carpentry on back of wall"
Dnstream Sample Point #2		
time	7:28	10:46AM
NTU	8.5	28.0
NTU Δ from #1	1.1	+1.0
Turb Color	Brown	Brown
pH	-	-
pH Δ from #1	-	-
Description of work performed	" "	" "

Notes: Steve Goodrich requested still reading @ discharge of sediment trap @ 11:05 am = 710 m³

Equipment
Inspection:

Oil Sheen: None observed
Observed by (print): Lorenz Klopke

By my signature I certify that this report is accurate and true as witnessed.

Signature: Lorenz Klopke

Signature: Lorenz Klopke

Electron Hydro Intake Project

DATE: 10-16-2010

Page: 2 of 2

(Conveyance Channel) Sample Point #3												
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	7:31	11:13	3:28	5:54	7:45							
NTU	14.0	14.0	13.0	12.0	28.3							
Turb Color	Clear	Clear	Clear	Clear	Clear							
pH	-	-	-	-	-							
Description of work performed	work on Bulk of wall	"	"	"	"							

(300' Dnstream from work area) Sample Point #4												
Sample Point #4	1	2	3	4	5	6	7	8	9	10	11	12
time	7:00 AM	8:00 AM	10 AM	11:30	12:30	1:00	3:30	4:30	6:00			
NTU	-	-	-	-	-	-	-	-	-			
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear			
pH	-	-	-	-	-	-	-	-	-			
Description of work												

(Dnstream Pump from Abutment) Sample Point #5												
Sample Point #5	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color												
pH												
Description of work												

Notes: #5 not sample, water not discharged to channel. Pumped to pump #2.

- Rain started around 11:30 AM
- #4 was clear throughout day, river got brown by the afternoon,

Observed by (print): Long Klepe
By my signature I certify that this report is accurate and true as witnessed.

Signature:


ED_005624_00000104-00039

EH-USA001397

Electron Hydro Intake Project

DATE: Oct 15th 2020

Page: 1 of 2

	Morning	Afternoon												
Weather:	Cloudy	Sunny												
Precipitation:	0													
River Level:	4.43													
Sample location	1	2	3	4	5	6	7	8	9	10	11	12		
Upstream Sample Point #1														
time	9:30 AM	2:15 PM	3:14 PM	4:30	4:55	5:56	7:00							
NTU	11.0	9.5	9.5	8.5	8.6	8.4	6.8							
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear							
pH	7.17	-	-	-	-	-	-							
Description of work performed	Prep back side of wall for forms													
Dnstream Sample Point #2														
time	9:50	3:11 pm	3:52	4:36 pm	5:06	6:04	7:10							
NTU	11.0	9.60	9.30	8.6	8.5	8.4	7.5							
NTU Δ from #1	0	-1.9	-2	+1	-1	0	+1.7							
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear							
pH	7.15	-	-	-	-	-	-							
pH Δ from #1	-.02	-	-	-	-	-	-							
Description of work performed	11													

Notes: Examining to insure downstream road access to site (and tribut water in channel) informed operator to haul monitors throughout shift. Sample #2 did not exceed wQmp compliance @ any time.

Gens also powered concrete for the bulk between wall & spillway.
Equipment see inspection - equipment inspected before entry into & throughout shift
Inspection: 10/5

Oil Sheen: None observed

Observed by (print): Greg Kapple

By my signature I certify that this report is accurate and true as witnessed.

Signature:

Electron Hydro Intake Project

DATE: Oct 15th 2010

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time	1:55:42	3:30:00	4:05	4:42	5:10	6:10	7:10					
NTU	12.0	15.0	14.0	12.0	11.0	11.0	10.0					
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
pH	-	-	-	-	-	-	-					
Description of work performed												

(300' Dnstream from work area) Sample Point #4												
time	10:00	3:35	4:10	4:50	5:16	6:15	7:15					
NTU	95.0	15.0	60.0	31.0	40.0	26	34.6					
Turb Color	Light Brn											
pH	-	-	-	-	-	-	-					
Description of work performed												

(Dnstream Pump from Abutment) Sample Point #5												
time												
NTU												
Turb Color												
pH												
Description of work performed												

Notes: At start of hours for concrete was 8.14, after pour was 9.05, water pumped to pump location for CO₂ injection. When measured after pumping water, pH was 7.84, X monitored before pumping & it did not exceed 8.5, was 7.91. Did not require CO₂ injection before pumping to convey concrete d'tch.

Observed by (print): Cory Klepe
By my signature I certify that this report is accurate and true as witnessed.

Signature: [Signature]

Electron Hydro Intake Project

DATE: Oct 14th 2020

Page: 6 of 2

	Morning	Afternoon	
Weather:			
Precipitation:			
River Level:	67.5	650	
Sample Location	1	2	
Upstream Sample Point #1			
time	5:00 AM	2:57 PM	4:03 PM
NTU	11.0	18.0	20.0
Turb Color	Clear	Clear	Clear
pH	-	-	-
Description of work performed	Demolishing Equip. warehouse	Excavation work	Excavation work + stripping wall form
Dnstream Sample Point #2			
time	5:15 AM	3:16 PM	4:12 PM
NTU	11.5	17.0	16.0
NTU Δ from #1	-1.4	-1.0	-4.0
Turb Color	Clear	Clear	Clear
pH	-	-	-
pH Δ from #1	-	-	-
Description of work performed	"	Excavation work	stripping wall form

	Morning	Afternoon	
Weather:			
Precipitation:			
River Level:	67.5	650	
Sample Location	1	2	
Upstream Sample Point #1			
time	5:00 AM	2:57 PM	4:03 PM
NTU	11.0	18.0	20.0
Turb Color	Clear	Clear	Clear
pH	-	-	-
Description of work performed	Demolishing Equip. warehouse	Excavation work	Excavation work + stripping wall form
Dnstream Sample Point #2			
time	5:15 AM	3:16 PM	4:12 PM
NTU	11.5	17.0	16.0
NTU Δ from #1	-1.4	-1.0	-4.0
Turb Color	Clear	Clear	Clear
pH	-	-	-
pH Δ from #1	-	-	-
Description of work performed	"	Excavation work	stripping wall form

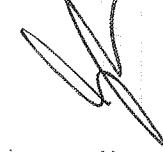
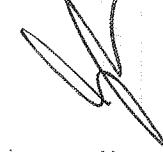
	Morning	Afternoon	
Weather:			
Precipitation:			
River Level:	67.5	650	
Sample Location	1	2	
Upstream Sample Point #1			
time	5:00 AM	2:57 PM	4:03 PM
NTU	11.0	18.0	20.0
Turb Color	Clear	Clear	Clear
pH	-	-	-
Description of work performed	Demolishing Equip. warehouse	Excavation work	Excavation work + stripping wall form
Dnstream Sample Point #2			
time	5:15 AM	3:16 PM	4:12 PM
NTU	11.5	17.0	16.0
NTU Δ from #1	-1.4	-1.0	-4.0
Turb Color	Clear	Clear	Clear
pH	-	-	-
pH Δ from #1	-	-	-
Description of work performed	"	Excavation work	stripping wall form

Notes: New vessel in river, but onsite until afternoon began excavating for future river diversion for off-channel removal. Also areas contained to strip wall forms. New vessel began working on tie back connection between wall & spillway. Equipment Done @ beginning of shift.

Oil Sheen: None observed

Observed by (print): Loren Kleppel

By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Electron Hydro Intake Project

Oct 1st 2000

DATE:

Page: 2 of 2

(Conveyance Channel) Sample Point #3

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color												
pH												
Description of work performed												
(300' Dnstream from work area) Sample Point #4												

(Dnstream Pump from Abutment) Sample Point #5

time	3:16pm	4:26pm	5:30pm									
NTU												
Turb Color	Clear	Semi clear	Very clear									
pH	—	—	—									
Description of work												

Notes: Sample #5 not pulled to channel, sample not needed.



Observed by (print): Corey Kipke
By my signature I certify that this report is accurate and true as witnessed.

Signature:



Electron Hydro Intake Project

DATE: Oct 13th 2020

Page: ____ of ____

	Morning	Afternoon
Weather:		
Precipitation:		
River Level:		
Sample Location	1	2
Upstream Sample Point #1	3	4
time	5	6
NTU	7	8
Turb Color	9	10
pH	11	12
Description of work performed		

	Morning	Afternoon
Weather:		
Precipitation:		
River Level:		
Sample Location	1	2
Downstream Sample Point #2	3	4
time	5	6
NTU	7	8
NTU Δ from #1	9	10
Turb Color	11	12
pH		
pH Δ from #1		
Description of work performed		

Notes:

No work determined due to thunderstorm weather conditions. Cans left in morning.

Equipment Done, ~~not yet~~ need to have inspection log. w/ no work in river inspectors weren't present, not observed all day due to weather done throughout day just in morning.

Oil Sheen: None

Observed by (print): *Lesley Kelle*

By my signature I certify that this report is accurate and true as witnessed.

Signature: *JL*

Electron Hydro Intake Project

DATE:

Page: ____ of ____

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time												
NTU												
Turb Color												
pH												
Description of work performed												
(300' Dnstream from work area) Sample Point #4												
time												
NTU												
Turb Color												
pH												
Description of work												
(Dnstream Pump from Abutment) Sample Point #5												
time												
NTU												
Turb Color												
pH												
Description of work												

Notes:

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

Signature:

Electron Hydro Intake Project

DATE: Oct 12th 2020

Page: 1 of 2

	Morning	Afternoon
Weather:	Cloudy	Sunny
Precipitation:	0	0
River Level:	1180	786
Sample Location	1	2
Upstream Sample Point #1		
time	8:30 AM	10:00 AM
NTU	370	180
Turb Color	Brown	Brown
pH	7.43	-
Description of work performed	Stripping forms on wall	Stripping forms on wall
Dnstream Sample Point #2		
time	8:45 AM	10:15 AM
NTU	310	175
NTU Δ from #1	-60	-5
Turb Color	Brown	Brown
pH	7.45	-
pH Δ from #1	+.02	-
Description of work performed	Stripping forms on wall	Stripping forms on wall

Notes:

- Crews began stripping forms off wall abutment.
- Crews cleaned work area in blue work area,

Observed by (print): Corey Kleppe

By my signature I certify that this report is accurate and true as witnessed.

Signature: Corey Kleppe

Signature:

Electron Hydro Intake Project

DATE: Oct 12th 2000

Page: 2 of 2

Sample Location (Conveyance Channel) Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time	8:50 AM	10:15 AM										
NTU	250	110										
Turb Color	Light Brown	Light Brown										
pH	7.13	-										
Description of work performed												

(300' Dnstream from work area) Sample Point #4

Sample Point #4	1	2	3	4	5	6	7	8	9	10	11	12
time	8:58 AM	10:30 AM										
NTU	310	150										
Turb Color	Brown	Brown										
pH	7.36	-										
Description of work performed												

Notes:

Sample point #5 not related to test, not discharging to channel from pump.

Observed by (print): Cory Klepe
By my signature I certify that this report is accurate and true as witnessed.



Signature:

Electron Hyd. O Intake Project

DATE: Oct 11th 2010

Page: 1 of 2

	Morning	Afternoon	
Weather:			
Precipitation:			
River Level:			
Sample Location	1	2	3
Upstream Sample Point #1			
time			
NTU			
Turb Color			
pH			
Description of work performed			
Dmstream Sample Point #2			
time			
NTU			
NTU Δ from #1			
Turb Color			
pH			
pH Δ from #1			
Description of work performed			

Notes:

No work occurred.

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

Signature:

Electron Hyd. - o Intake Project

DATE: Oct 14, 2020

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time												
NTU												
Turb Color												
pH												
Description of work performed												
(300' Dnstream from work area) Sample Point #4												
time												
NTU												
Turb Color												
pH												
Description of work												
Notes:												

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

Signature:

Electron Hydro Intake Project

DATE: Oct 11th 2010

Page: 1 of 2

	Morning	Afternoon										
Weather:												
Precipitation:												
River Level:												
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time												
NTU												
Turb Color												
pH												
Description of work performed												

	Morning	Afternoon										
time												
NTU												
NTU Δ from #1												
Turb Color												
pH												
pH Δ from #1												
Description of work performed												

Notes:

No work occurred.

Observed by (print):

Signature:

By my signature I certify that this report is accurate and true as witnessed.

Electron Hyd-J Intake Project

DATE: Oct 10 2010

Page: 1 of 2

	Morning	Afternoon
Weather:	Rain	Rain
Precipitation:	1/4"	1/4"
River Level:	6' 80	6' 20
Sample Location	1	2
Upstream Sample Point #1	2	3
	4	5
	6	7
	8	9
	10	11
	12	

time	11:15 AM	1:15 PM
NTU	641	276
Turb Color	Brown	Brown
pH	7.31	
Description of Pouring work performed	Last part of wall	Poured @ bottom of stairs

time	11:24 AM	1:22 PM
NTU	542	258
NTU Δ from #1	-99	-18
Turb Color	Brown	Brown
pH	7.30	
pH Δ from #1	-01	
Description of Pouring work performed	Last part of wall	Poured 2nd wall @ bottom of stairs

Notes:

- Crews came in to pour last 8 yards of concrete for wall, no observed contact with water into river. pH in work site was measured @ 7.13 while pouring completed pouring wall for abutment.
- Crews had extra cement, poured 2nd wall @ bottom of stairs next to new control house.
- Crews cleaned work site and removed equipment from in river work area.

Observed by (print): Corey Kellepe

By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Electron Hydr. Intake Project

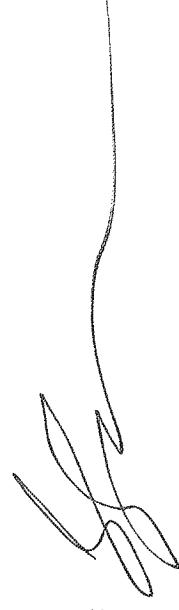
DATE: Outflow 10Page: 2 of 2

Sample Location (Conveyance Channel) Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time	11:30 AM	1:28 pm										
NTU	210	150										
Turb Color	light Brn	light Brn										
pH												
Description of work performed	Pouring last part of wall	Pouring 2' while pinked										

(300' Dnstream from work area) Sample Point #4	1	2	3	4	5	6	7	8	9	10	11	12
time	11:35 AM	1:35 pm										
NTU	470	200										
Turb Color	Brown	Brown										
pH												
Description of work performed	Pouring last part of wall	Cleaned up work site										

Notes:

Observed by (print): Lorey Klepper
 By my signature I certify that this report is accurate and true as witnessed.

Signature:


Electron Hyd. Intake Project

DATE: Oct 3, 2020

age: 1 of 2

	Morning	Afternoon
Weather:	Cloudy	Cloudy
Precipitation:	0	0
River Level:	320	250
Sample Location	1	2
Upstream Sample Point #1		
time	3:22 AM	3:06 PM
NTU	95.0	28.0
Turb Color	Light Brn	green
pH	8.45	8.53
Description of work performed	Spilling washing concrete Kotsay	
Dnstream Sample Point #2		
time	3:30 AM	3:22 PM
NTU	80.0	28.0
NTU Δ from #1	+15.0	-
Turb Color	Light Brn	green
pH	8.48	8.37
pH Δ from #1	+.03	-16
Description of work performed	Spilling Batch concrete Pouring	

Notes:

Started rinses @ 3:30 began pouring concrete @ 4:00 AM for testing.
 No sediment floating striking observed, 1/4 was inundated throughout point and per wash down injection occurred @ pump #2 & pump #3 to keep any debris, water in concrete as needed. At no point was there any water disturbed to other during pour outside of WEMP envelope.

Observed by (print): Long Keppe
 By my signature I certify that this report is accurate and true as witnessed.

Signature: 

EH-USA001411
 ED_005624_00000104-00053

Electron Hydoro Intake Project

DATE: Oct 3 2020Page: 2 of 2

(Conveyance Channel) Sample Point #3

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	3:42 AM											
NTU	13.0											
Turb Color	Yellow											
pH												
Description of work performed	Porting Water plant											

(30' Dnstream from work area) Sample Point #4

time												
NTU												
Turb Color												
pH												
Description of work												

Notes:

- Minimal water contact w/ concrete, water was pumped w/ 102 to reduce
- blt. Slope & pouring concrete by 10:00pm
- large rocks removed by excavator from bottom before concrete poured in section of blt.

Observed by (print): Larry K. Kline
 By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Electron Hydro Intake Project

DATE: Oct 9th 2012

Page: 6 of 2

	Morning	Afternoon	
Weather:	Clear	Sunny	
Precipitation:	0	0	
River Level:	250	237	
Sample Location	1	2	
Upstream Sample Point #1			
time	3:30 AM	12:10	
NTU	100	65.0	
Turb Color	Brown	Light Brown	
pH	7.67	7.65	
Description of work performed	Perf. plant Sediment & form wall		
Dnstream Sample Point #2			
time	3:45	12:45	
NTU	15.0	60	
NTU Δ from #1	-5	-5	
Turb Color	Brown	Light Brown	
pH	-	-	
pH Δ from #1	-	-	
Description of work performed	Perf. plant Sediment & form wall		

Downstream Sample Point #2

	Morning	Afternoon	
Weather:	Clear	Sunny	
Precipitation:	0	0	
River Level:	250	237	
Sample Location	1	2	
Upstream Sample Point #1			
time	3:30 AM	12:10	
NTU	100	65.0	
Turb Color	Brown	Light Brown	
pH	7.67	7.65	
Description of work performed	Perf. plant Sediment & form wall		
Dnstream Sample Point #2			
time	3:45	12:45	
NTU	15.0	60	
NTU Δ from #1	-5	-5	
Turb Color	Brown	Light Brown	
pH	-	-	
pH Δ from #1	-	-	
Description of work performed	Perf. plant Sediment & form wall		

Notes:

Washed embankments for forms & prepared batch plant first thing @ 3:30 AM.

Begin pouring concrete @ 5:00 AM until 2:00 PM. had two breaks

- (1) Out of water, was resupplied
- (2) Out of cement, used reserve from trailer.

Observed by (print): Jerry Klepe

By my signature I certify that this report is accurate and true as witnessed.

Signature: 

EH-USA001413

Electron Hydro Intake Project

DATE: Oct 9th 2006

Page: 2 of 2

(Conveyance Channel) Sample Point #3

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time	3:50 AM	12:50 PM										
NTU	7.0	11.0										
Turb Color	Clear	Clear										
pH												
Description of work performed	Finish Form	Pouring Concrete										

(300' Dnstream from work area) Sample Point #4

time	3:55	12:55										
NTU	50.0	60.0										
Turb Color	Light Blu	Light Blu										
pH	7.30	7.32										
Description of work performed	Finish Form	Pouring Concrete										
Notes:												
	4:00	1:00										
	500	120.0										
	8.3	10.00										
	pr											

* Sample point 5, this was site control for water downstream from testing at well 11. Water periodically checked for turbidity & pH, pH rose to 10.00 by 10pm, used warm control method for pH and CO₂ injection into discharge line to pH on discharge was 7.37. Method was effective. Ran out of cement for batch plant by 7pm.

Observed by (print): Corey Klepe
By my signature I certify that this report is accurate and true as witnessed.

Signature: 
Signature: 

Electron Hydro Intake Project

DATE: Oct 8th 2020

Page: 1 of 2

	Morning	Afternoon	
Weather:	Overscast		
Precipitation:	0	0	
River Level:	3'30	2'90	2'83 2'83
Sample Location	1	2	3 4 5 6 7 8 9 10 11 12

Upstream Sample Point #1

time	7:00	7:45	8:45	12:30							
NTU	65.0	65.0	65.0	60.0							
Turb Color	Light Brn	Light Brn	Light Brn	Light Brn							
pH	-	-	-	-							
Description of work performed	Typing report standing front colors inserting embeds into wall	"	"	"							

Dnstream Sample Point #2

time	7:15	8:30	9:00	12:45							
NTU	60.0	60.0	60.0	60.0							
NTU Δ from #1	Light Brn	Light Brn	Light Brn	Light Brn							
Turb Color	-5.0	-2	-5.0	-2							
pH	-	-	-	-							
pH Δ from #1	-	-	-	-							
Description of work performed	"	"	"	"							

Notes: Crews continued to start forms, type rebar cages & install embeds.
 • Engineering rolled out over for layout for air blower embeds for future project.

Oil: No Issue
 Seen: Observed by (print):
 By my signature I certify that this report is accurate and true as witnessed.

Sig: Corey Blape

Signature: 

Electron Hydro Intake Project

DATE: Oct 8th 2020

Page: 2 of 2

Sample Location (Conveyance Channel) Sample Point #3		1	2	3	4	5	6	7	8	9	10	11	12
time		7:10	8:05	9:05	12:50								
NTU		10.0	9.0	9.0	8.0								
Turb Color		Clear	Clear	Clear	Clear								
pH		-	-	-	-								
Description of work performed													

(300' Dnstream from work area) Sample Point #4													
time	7:25	8:10	9:10	12:55									
NTU	30.0	35.0	40.0	45.0									
Turb Color	Clear	Clear	Clear	Clear									
pH	-	-	-	-									
Description of work													
Notes:	Sample #5	7:10	8:15	9:15	11:05								
	NTU	100.0	100.0	90.0	80.0								
	Color	Light Brn	Light Brn	Light Brn	Light Brn								

Sample #5 not pumped into river, hose diverted to conveyance channel, as WTR reading was over background. Monitored discharge C #3, no turbid discharge occurred into river.

Oil: No Tissue
Green

Observed by (print): Loren Kelleher
By my signature I certify that this report is accurate and true as witnessed.

Signature: BK

Electron Hydro Intake Project

DATE: Oct 7th 2020

Page: 1 of 2

	Morning	Afternoon
Weather:	Cloudy	Sunny
Precipitation:	0	0
River Level:	340	340
Sample Location	1	2
Upstream Sample Point #1		
time	7:30 Am	8:05 Am
NTU	120	130
Turb Color	Light Brn	Light Brn
pH	7.84	—
Description of work performed	Install improve Nets/ improve light Aut	improve site Access/ install wall form repair
Dnstream Sample Point #2		
time	7:45 am	8:25 am
NTU	120	120
NTU Δ from #1	0	-10
Turb Color	Light Brn	Light Brn
pH	7.85	—
pH Δ from #1	+ .01	—
Description of work performed	//	//

time	1:00 pm	3:00 pm	3:40	4:30	5:05
NTU	95.0	95.0	95.0	40.0	95.0
Turb Color	Light Brn	Light Brn	Light Brn	Light Brn	Light Brn
pH	7.84	—	—	—	—
Description of work performed	Installing front form wall form excavating fill material	//	//	//	//

Notes: Crews started river work @ 7:30
 - Wolf primarily was installing rebar and wall forms. Beginning of day improved site access on down stream access. @ 3:00 excavated part of fill and hauled to upper landing, excavated next to left side existing wall to remove material.

Q: No Issues
 Green:

Observed by (print):

Lorey Kleppen

By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Signature: 

EH-USA001417

Electron Hydro Intake Project

DATE: Oct 7th 2020

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time	7:50	8:25	9:30 AM	1:10 PM	3:25	4:00	4:50	5:25				
NTU	10.0	10.0	13.0	8.0	10.0	11.0	13.0	13.0				
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear				
pH	-	-	-	-	-	-	-	-				
Description of work performed	install rebar work	" wall forms	" wall forms	" excavate fill material	" "	" "	" "	" "				
(30' Dnstream from work area) Sample Point #4												
time	7:55	8:30	9:35	1:25	3:30	4:05	4:55	5:30				
NTU	12.0	15.0	15.0	60.0	60.0	100	100	100.0				
Turb Color	light Brn	light Brn	light Brn	light Brn	light Brn	light Brn	light Brn	light Brn				
pH	-	-	-	-	-	-	-	-				
Description of work	" work	" wall forms	" wall forms	" wall forms	" "	" "	" "	" "				

Notes:

Sample Point #5

Time	8:00	8:35	9:40	1:30	3:35	4:10	5:00	5:35
NTU	12.0	115	115	85.0	85.0	85.0	80.0	85.0
Color	light Brn							
Alt	7.85	-	-	7.65	-	-	-	-

- Sample Point #5 was less turbid than river, so water was pumped back into river.

Q:1 No Issues
None.

Observed by (print): Corey Kleppen
By my signature I certify that this report is accurate and true as witnessed.

Signature: Corey Kleppen

Electron Hydro Intake Project

DATE: Oct 6 2020

Page: 1 of 2

	Morning	Afternoon
Weather:	Clear	Sunny
Precipitation:	0	0
River Level:	324	315
Sample Location	1	2
Upstream Sample Point #1	3	4
time	8:00 AM	10:45 AM
NTU	320	71000
Turb Color	Brown	Dark Brown
pH	-	7.50
Description of work performed	finishing start backfilling	installing rebar concrete backfilling concrete backfilling

	Morning	Afternoon
Weather:	Clear	Sunny
Precipitation:	0	0
River Level:	315	31000
Sample Location	5	6
Downstream Sample Point #2	7	8
time	8:15 AM	11:00 AM
NTU	300	71000
NTU Δ from #1	-200	4000
Turb Color	Brown	Dark Brown
pH	-	7.48
pH Δ from #1	-	-0.2
Description of work performed	rebar install for wall	installing rebar concrete backfilling rebar concrete backfilling

Notes: Crews started in mid work @ 8:15 AM
 : Crews installing last two rounds of rebar back of wall bins.
 : Crews installing rebar for wall west of shaft

Observed by (print): Greg Klepe
 By my signature I certify that this report is accurate and true as witnessed.

Signature:

EH-USA001419

Electron Hydro Intake Project

DATE: Oct 6 2010

Page: 2 of 2

Sample Location (Conveyance Channel) Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time	8:25 AM	11:10	1:55	2:10	3:20	4:20						
NTU	20.0	25.0	16	15	15	15	13					
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear					
pH	-	-	-	-	-	-	-					
Description of work performed	Standing (down)	Installing rebar rebar for coul	Installed dirt closing rebar rebar	installed rebar rebar	installed rebar rebar	installed rebar rebar	installed rebar rebar					
(300' Dnstream from work area) Sample Point #4												
time	8:30	11:15	1:55	2:25	3:25	4:25						
NTU	35.0	30.0	300.0	250.0	250.0	225.0						
Turb Color	Light Brown	Brown	Brown	Brown	Brown	Brown						
pH	-	-	-	-	-	-	-					
Description of work performed	Standing (down)	Installed rebar rebar	Installed rebar rebar	Installed rebar rebar	Installed rebar rebar	Installed rebar rebar	Installed rebar rebar					

Notes: Update: per Thom Chang to WAMP. Based on site conditions going to place pump next to downstream of Spillway to pump water back into river before it enters work area. This will no longer require pump #3. Also Jerry Blakely advised to make road access to have improved access to work site. This is per than plan. This plan change occurred after Thom called Carol Sedor from Ecology and was made into other early afternoon. Water that will be pumped will be taken prior to pumping into river. If water not in compliance for some reason it will be redirected w/ hoses into ditch. water tested NTU avg 500,

Pump is over 1,000
pumped water back to river.

Cory Klepper

Signature:

Observed by (print): Cory Klepper
By my signature I certify that this report is accurate and true as witnessed.

Electron Hydro Intake Project

DATE: Oct 5 2010

Page: 1 of 2

	Morning	Afternoon
Weather:	Clear	Sunny
Precipitation:	0	0
River Level:	250	237
Sample Location	1	2

Upstream Sample Point #1

time	7:00 am	10:00 am
NTU	60.0	55.0
Turb Color	green	green
pH	-	-
Description of work performed	Rebar Mayors for wall	Standing fins fish counter

	Morning	Afternoon
time	7:20 am	10:15 pm
NTU	60.0	50.0
NTU Δ from #1	0	-10
Turb Color	green	green
pH	-	-
pH Δ from #1	-	-
Description of work performed	Rebar Mayors for wall	Standing fins fish counter

Notes:

- Crew started layout b/w well bins
 - Crew began grand my back of well bins
 - Per W DAW advised Run Stream outlet of P.S. back w/ rock shot took using approved explosives to move rock into place.
- Observed by (print): Loren Klope
- By my signature I certify that this report is accurate and true as witnessed.
- Signature: Brian

Electron Hydro Intake Project

DATE: Oct 5 2020

Page: 2 of 2

Sample Location (Conveyance Channel)	1	2	3	4	5	6	7	8	9	10	11	12
time	7:20 am	1:20 pm										
NTU	—	—										
Turb Color	Clear	Clear										
pH	—	—										
Description of work performed												

(300' Dnstream from work area) Sample Point #4

time	7:25	1:25 pm										
NTU	—	—										
Turb Color	Clear	Clear										
pH	—	—										
Description of work												

Notes:

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

Signature:

Electron Hyd. Intake Project

DATE: Oct 2020

age: 1 of 2

	Morning	Afternoon
Weather:	Mist	Cloudy
Precipitation:	0	0
River Level:		
Sample Location	1	2
	3	4
	5	6
	7	8
	9	10
	11	12

Upstream Sample Point #1

time	6:30 am	3:30 pm
NTU	31	27
Turb Color	green	green
pH	8.08	8.15
Description of work performed	working on back of plant	working on plant

	Morning	Afternoon
time	6:45	3:15 pm
NTU	35	27
NTU Δ from #1	-4	0
Turb Color	green	green
pH	8.06	8.18
pH Δ from #1	-0.2	+0.3
Description of work performed	working on plant	working on plant

Notes: 1. Crew started @ 6:30 am

- worked on batch plant, plant had greater need to address.
- no fire was observed during this time.

- plant started working concrete @ 6:45 am, finished pouring by 10:00 pm.

- Only minor contact w/ concrete during pour was caused by pump #2 at head end loss as needed per w/b mix.

Loren Klepe

Signature: *Loren Klepe*

Observed by (print): *Loren Klepe*
By my signature I certify that this report is accurate and true as witnessed.

Electron Hyd. Intake Project

DATE: Oct 12 2000age: 2 of 2

(Conveyance Channel) Sample Point #3												
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	6:50 AM	3:20pm										
NTU	10	9										
Turb Color	Clear	Clear										
pH	-	-										
Description of work performed	working on plant	working on plant										

(300' Dnstream from work area) Sample Point #4

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	6:55 AM	3:25 pm										
NTU	15	13										
Turb Color	Clear	Clear										
pH	-	-										
Description of work performed	working on plant	working on plant										

Notes:

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

Signature:

Electron Hydro Intake Project

Oct 10/12/2002
DATE:

Page: 1 of 2

	Morning	Afternoon									
Weather:	Clear	Sunny									
Precipitation:	0	0									
River Level:	310	315	310	310	310	310	310	310	310	310	310
Sample Location	1	2	3	4	5	6	7	8	9	10	11
Upstream Sample Point #1											12
time	6:30	7:00	8:00	11:00	11:30	12:30	4:00				
NTU	6.5	5.5	5.0	4.0	4.0	3.9	3.9				
Turb Color	green	green	green	green	green	green	green				
pH	8.04	—	—	—	—	—	—				
Description of work performed											

	Morning	Afternoon									
Weather:	Clear	Sunny									
Precipitation:	0	0									
River Level:	310	315	310	310	310	310	310	310	310	310	310
Sample Location	1	2	3	4	5	6	7	8	9	10	11
Dnstream Sample Point #2											
time	6:45	7:15	8:15	11:15	11:45	12:45	4:15				
NTU	6.0	42.5	40	38	38	36	35				
NTU Δ from #1	-15	-17.5	-10	-2	-2	-3	-4				
Turb Color	green	green	green	green	green	green	green				
pH	8.04	—	—	—	—	—	—				
pH Δ from #1	0	—	—	—	—	—	—				
Description of work performed											

- Notes: • Powerd part of cut off wall for testing water in footing hole measured 10.00 ft used for injection per w&mp, water discharged at 7.83, back ground was 8.04 - Crews continued to install rebar - Delivery of cement to plant - @ 1.00 cu m Excavated built up sediment @ pad #3 + 2, improve pumping, no tail bid discharge observed by (print): Craig Kleine Signature: Craig Kleine
By my signature I certify that this report is accurate and true as witnessed.

Electron Hydro Intake Project

DATE: Oct 2 2020

Page: 2 of 2

Sample Location (Conveyance Channel)	Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time	6:50	7:20	8:10	11:20	11:30	12:50	4:20						
NTU	15	14	12	13	13	13	10						
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear						
pH	-	-	-	-	-	-	-						
Description of work performed													

(300' Dnstream from work area) Sample Point #4

time	6:55	7:25	8:25	11:25	11:55	12:55	4:25						
NTU	15	15	15	20	20	18	15						
Turb Color	Clear												
pH	-	-	-	-	-	-	-						
Description of work performed													

Notes:

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

Signature:

EH-USA001426

Electron Hydro Intake Project

DATE: Oct 1 2020

Page: 1 of 2

	Morning	Afternoon	
Weather:	Cloudy	Sunny	
Precipitation:	0	0	
River Level:	33.0	33.0	
Sample Location	1	2	
Upstream Sample Point #1			
time	6:30	7:00	8:00
NTU	55	55	50
Turb Color	green	green	green
pH	—	—	—
Description of work performed	rebar install	—	—
Downstream Sample Point #2			
time	6:45	7:15	8:15
NTU	50	50	42.5
NTU Δ from #1	-5	-5	-7.5
Turb Color	green	green	green
pH	—	—	—
pH Δ from #1	—	—	—
Description of work performed	—	—	—

Notes:	<ul style="list-style-type: none"> - Cens installed rebar for fastening - Lay out for rebar for fastening - Regulated platform for crane up stream no observed sediment generation occurred - Brought one load of cement to batch plant to prep batch plant
Observed by (print):	Corey Keppe

By my signature I certify that this report is accurate and true as witnessed.

Signature:



Electron Hydro Intake Project

DATE: Oct 1 2010

Page: 2 of 2

Sample Location (Conveyance Channel)	Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time	6:50	7:10	8:20	9:20									
NTU	10	9.0	8.0	8.0									
Turb Color	Clear	Clear	Clear	Clear									
pH	-	-	-	-									
Description of work performed													

(300' Dnstream from work area) Sample Point #4

time	6:55	7:25	8:25	9:25	1:20								
NTU	15	15	14	14	13								
Turb Color	Clear	Clear	Clear	Clear	Clear								
pH	-	-	-	-	-								
Description of work													
Notes:													

Observed by (print):

Lori Kleppen

By my signature I certify that this report is accurate and true as witnessed.

BK

Signature:

Electron Hydro Intake Project

DATE: Sept 30 2020

Page: 1 of 2

	Morning	Afternoon
Weather:	Sunny	
Precipitation:	0	0
River Level:	310	310
Sample Location	1	2

Upstream Sample Point #1

time	6:30	7:00
NTU	55	50
Turb Color	green	green
pH	8	8
Description of work performed	Upstream installation labor installing	Installation labor

Dnstream Sample Point #2

time	6:45	7:15
NTU	45	45
NTU Δ from #1	-10	-5
Turb Color	green	green
pH	-	-
pH Δ from #1	-	-
Description of work performed	Installation labor	Installation labor

Notes: Crews started @ 6:30 installing labor for today's work. Members around 7:45 - 8:00 am noticed leakage under the dam that required immediate attention to mitigate water flowing into worksite. All other activities stopped to address. Members of dry salt re-worked slope up stream of work area to reduce flow to pump #2 to stabilize slope w/ large rock. New slope was stabilized & water diverted to pump #2.

Observed by (print): John Klepe

By my signature I certify that this report is accurate and true as witnessed.

Signature: John Klepe

Electron Hydro Intake Project

DATE: Sept 30 2020

Page: 2 of 2

(Conveyance Channel) Sample Point #3												
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
time	6:50	7:20										
NTU	13	13										
Turb Color	Clear	Clear										
pH	-	-										
Description of work performed	Infilling Rear	Infilling Rear										

(300' Dnstream from work area) Sample Point #4

time	6:55	7:25										
NTU	14	14										
Turb Color	Clear	Clear										
pH	-	-										
Description of work performed	Infilling Rear	Infilling Rear										

Notes:

- Night shift worked pups & followed Deviating for WQ Mf

- Due to rock wanted during long shift all work was paused.
- Sampling for water quality was put on hold to help redirect water flow from rock site potential rock have fallen to pump #2. Once flow redirected and draining this time no sediment generation activity observed.
- During this slope stabilization rocks fell into river and one bouldering form approx 3' was rocks fell into river, these could not be removed by hand. Did not affect flows though.

Observed by (print): Loren Klepp
By my signature I certify that this report is accurate and true as witnessed.

Signature: Loren Klepp

Electron Hydro Intake Project

DATE: Sept 29th 2020

Page: 1 of 2

	Morning	Afternoon										
Weather:	Cloudy	Sunny										
Precipitation:	0	0										
River Level:	336	336										
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
<u>Upstream Sample Point #1</u>												
time	6:30	7:00	8:00	9:00	10:00	11:00	12:00	1:00	2:00	3:00		
NTU	5.0	5.0	5.5	5.5	4.0	4.0	3.5					
Turb Color	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear					
pH	-	-	-	-	-	-	-					
Description of work performed	Camp up excavate	Installing rebar	Concrete in place									
<u>Downstream Sample Point #2</u>												
time	6:45	7:15	8:15	9:15	10:45	11:45	12:45	1:15	2:15	3:15		
NTU	4.5	4.5	4.75	4.75	4.8	4.8	4.8	4.8	4.8	4.8		
NTU Δ from #1	-5.0	-5.0	-5.0	-5.0	-7.5	-7.5	-7.5	-7.5	-7.5	-7.5	33.5	
Turb Color	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear		
pH	-	-	-	-	-	-	-	-	-	-	-	
pH Δ from #1	-	-	-	-	-	-	-	-	-	-	-	
Description of work performed	Excavate	Installing rebar										

Notes: • Excavating continued for footings, rebar installation for footer began.

- Rebar tying in place per WQ M.
- Set up CO2 tanks in prep for concrete.
- No visible turbid discharge observed

Loren Klepp

Observed by (print):
By my signature I certify that this report is accurate and true as witnessed.

Loren Klepp

Signature:

Electron Hydro Intake Project

DATE: Sept 22nd 2020

Page: ___ of ___

(Conveyance Channel) Sample Point #3		1	2	3	4	5	6	7	8	9	10	11	12
time	6:50	7:20	8:20	9:20	10:00	3:25							
NTU	18	16	18	15	15	15							
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear							
pH	-	-	-	-	-	-							
Description of work performed	Excavating	Installing rebar											

(300 Dnstream from work area) Sample Point #4		1	2	3	4	5	6	7	8	9	10	11	12
time	6:55	7:25	8:25	9:25	10:05	3:30							
NTU	24	24	26	26	30	34							
Turb Color	Clear	Clear	Clear	Clear	Semi clear	Semi clear							
pH	-	-	-	-	-	-							
Description of work performed	Excavating	Installing rebar											

Notes:

Observed by (print): Cory Kelle
 By my signature I certify that this report is accurate and true as witnessed.



Signature: Cory Kelle

Electron Hydro Intake Project

DATE: Sept 28th 2010

Page: 1 of 2

	Morning	Afternoon
Weather:	Clear	Sunny
Precipitation:	0	0
River Level:	380 ft	365 ft
Sample Location	1	2

Upstream Sample Point #1

time	6:30	7:00	8:00	9:00	10:00	2:00	2:35	3:00	3:30	4:00	5:00
NTU	23	23	22	22	22	24	24	23	23.5	24	26
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
pH	-	-	-	-	-	-	-	-	-	-	-
Description of work performed	Excavate washing workup setting grade	Excavating hard material wash material	Excavating hard material wash material	Excavate hard material	excavate wash material						

	Morning	Afternoon
Weather:	Clear	Sunny
Precipitation:	0	0
River Level:	365	360
Sample Location	1	2

Downstream Sample Point #2

time	6:45	7:15	8:15	9:00	10:15	2:15	2:45	3:15	3:45	4:15	5:15
NTU	22.5	22	22	22	22	22.5	23	23	23	23	24
NTU Δ from #1	-0.5	-1	0	0	0	-1.5	-1	0	0	-1.5	-2
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
pH	-	-	-	-	-	-	-	-	-	-	-
pH Δ from #1	-	-	-	-	-	-	-	-	-	-	-
Description of work performed	Excavate washing workup setting grade	Excavating hard material wash material	Excavate hard material wash material	Excavate wash material							

Notes: Activities - Dewatering in place - Excavating for concrete setting started 6:30 AM.
 - Excavating for concrete setting started 6:30 AM.
 - Setting grade for setting

Observed by (print): Corey Klope
 By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Electron Hydro Intake Project

DATE: Sept 28th 2020

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time	6:50	7:25	8:25	9:25	10:25	12:25	2:50	3:20	3:50	4:20	5:20	
NTU	7.7	7.8	7.7	8.0	7.6	15	15	15	8.0	8.0	8.0	
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	
pH	-	-	-	-	-	-	-	-	-	-	-	
Description of work performed	Excavate gravel footing	Excavate footing	Excavate hard material									

(30' Dnstream from work area) Sample Point #4

time	6:55	7:30	8:30	9:30	10:30	12:30	2:35	3:25	3:55	4:25	5:25	
NTU	8.6	8.7	8.8	9.0	11.0	150	100	60	30	25	20	
Turb Color	Clear	Clear	Clear	Clear	Clear	Light Brn	Light Brn	Semi-dark	Dark	Dark	Dark	
pH	-	-	-	-	-	-	-	-	-	-	-	
Description of work performed	Dig Well + C.A. footing	Excavate footing	Excavate hard material									

Notes:

* @ 2:00 pm after lunch crews began excavating again no visible discharge, pump 2 at pump location 2 was off & water flowed through work site carrying turbid water through to conveyance channel, pump 3 was turned on & crews paused work until discharge from channel (sample point #3) was leased, discharge to river never exceeded back ground, work continued after, & sampling began again. No observed debris discharge occurred to river, B Mps were success ful.

Craig Klepe

Observed by (print): *Craig Klepe*
 By my signature I certify that this report is accurate and true as witnessed.

ED-005624_00000104-00076

EH-USA001434

[Signature]

Signature:

Electron Hydro Intake Project

DATE: Sept 27 2020

Page: 1 of 2

	Morning	Afternoon
Weather:	Clear	Sunny
Precipitation:	0	0
River Level:	550	450
Sample Location	1	2

Upstream Sample Point #1

time	6:30	7:30	8:00	9:00	12:15	2:30
NTU	25	25	25	25	21	22
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear
pH	-	-	-	-	-	-
Description of work performed	excavate elliptical bar posting	excavate posting	excavate gravel	grading gravel	grading prepping rebar	grading rebar

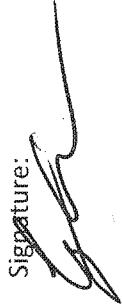
	Morning	Afternoon	
time	6:45	7:15	
NTU	26	25	
NTU Δ from #1	+1	0	
Turb Color	Clear	clear	
pH	-	-	
pH Δ from #1	-	-	
Description of work performed	cont'd excavate posting	excavate gravel	grading gravel

Notes: Crew started @ 6:30AM

Excavating posting work continued

- Demolishing water s it flowed through work area - hit tree into woods
- (see end of & night crew came on to switch pumps @ 7:00pm. Pump #4 started went bad)
- switched pump #3 to #4 location. Using pump #2 into ditch to pump to #4 location on St. ll effective

Observed by (print): Cory Klepp
By my signature I certify that this report is accurate and true as witnessed.

Signature: 

Electron Hydro Intake Project

DATE: Sept 27 2020

Page: 2 of 2

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(Conveyance Channel) Sample Point #3												
time	6:50	7:10	8:10	9:20	12:40	2:55						
NTU	10	10	10	10	16	14						
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear						
pH	-	-	-	-	-	-						
Description of work performed	excavate footing	cont'd excavate	" "	" "	grinding grading prepping rebar	grinding grading prepping rebar						

Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
(30' Dnstream from work area) Sample Point #4												
time	6:55	7:25	8:25	9:25	12:45	3:00						
NTU	15	15	20	20	20	16						
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear						
pH	-	-	-	-	-	-						
Description of work performed	excavate footing	" "	" "	" "	grinding grading prepping rebar	grinding grading prepping rebar						

Notes:

Observed by (print): Greg Klepe
By my signature I certify that this report is accurate and true as witnessed.



Signature:

Electron Hydro Intake Project

DATE: Sept 26 2020

Page: 1 of 2

	Morning	Afternoon										
Upstream Sample Point #1	1	2	3	4	5	6	7	8	9	10	11	12
time	6:30 am	7:00	8:00	9:00	11:30							
NTU	50	45	45	40	38							
Turb Color	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear							
pH	-	-	-	-	-							
Description of work performed	Setup sheet piling Excavate outlet footing											
Dnstream Sample Point #2												
time	6:45	7:20	8:15	9:15	1:45							
NTU	50	45	40	37	38							
NTU Δ from #1	0	0	-5	-3	0							
Turb Color	Semi clear	Semi clear	Semi clear	Semi clear	Semi clear							
pH	-	-	-	-	-							
pH Δ from #1	-	-	-	-	-							
Description of work performed	Sheet piling Excavate outlet footing	Sheet piling Excavate outlet footing	Sheet piling Excavate outlet footing	Sheet piling Excavate outlet footing	Sheet piling Excavate outlet footing							

Notes: Work Started @ 6:30 AM

- Crews in river continuing sheet piling, excavating needed.
- Demolition occurred throughout shift.
- Pump crane overnight to keep water levels down in work area.

- adjusted outlet protection for
discharge into ditch B up outlet with
w/ mobile

- Rock box adjusted @ discharge of
channel to reduce flow of
discharge.

Corey Klepke

Observed by (print):
By my signature I certify that this report is accurate and true as witnessed.

Corey Klepke

EH-USA001437

Electron Hydro Intake Project

DATE: Sept 26 2020

Page: 2 of 2

Sample Location (Conveyance Channel)	1	2	3	4	5	6	7	8	9	10	11	12
time	6:50	7:25	8:30	9:30	2:00							
NTU	15	15	15	14	20							
Turb Color	Clear	Clear	Clear	Clear	Clear							
pH	-	-	-	-	-							
Description of work performed	Excavate for testing	Excavate bottom	Outlet protection installed	Rock Reinforcement installed	Sledding							
(300' Dnstream from work area) Sample Point #4												

time	6:55	7:30	8:35	9:35	2:05							
NTU	11	8	10	10	22							
Turb Color	Clear	Clear	Clear	Clear	Clear							
pH	-	-	-	-	-							
Description of work performed	Excavate for testing	Excavate bottom	Sheet Piling installed	Sledding	Rock Reinforcement installed							

Notes:

Chris worked till 10:00 pm.

- Continued sledding for posting forms till end of shift.
- Chris @ night just wanted groups to without water levels in west area.

Craig Kleppie

Observed by (print):

By my signature I certify that this report is accurate and true as witnessed.

Craig Kleppie

Signature:

Electron Hydro Intake Project

DATE: Sept 25 2020

Page: 1 of 2

	Morning	Afternoon										
River Level:	62.0	67.0										
Weather:	Light rain	rainy										
Precipitation:	✓ 2.44 in											
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	6:20	7:30	8:00	9:00	11:30	12:00	1:00					
NTU	100	90	81	75	65	75	80					
Turb Color	light brn	light brn	light brn	light brn	light brn	light brn	light brn					
pH	7.3	-	-	-	-	-	-					
Description of work performed	temp 8.0°C											
Dnstream Sample Point #2												
time	6:50	7:45	8:20	9:20	11:45	12:20	1:20					
NTU	45.0	90	85	75	65	70	75					
NTU Δ from #1	-5	0	+4	0	-5	-5	-5					
Turb Color	light brn	light brn	light brn	light brn	light brn	light brn	light brn					
pH	7.28	-	-	-	-	-	-					
pH Δ from #1	- .62	-	-	-	-	-	-					
Description of work performed												

Notes:

- Started work @ 6:30
 began dirt work building up DS road way to drive excavator up to spilling to sheet pile for stability of site. @ 7:30
 - @ 11:30 began excavating next to road to remove material (united to upper landing). Also @ this time began sheet piling.

Observed by (print):

Lorey Kiepe

Signature:

By my signature I certify that this report is accurate and true as witnessed.



EH-USA001439

Electron Hydro Intake Project

DATE: Sept 25 2020

Page: 2 of 2

Sample Location (Conveyance Channel)	Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time	7:00	7:55		8:30	9:25	10:00	12:25		1:30				
NTU	18.0	18.0	3.6	4.0	8.6	1.9			2.5				
Turb Color	Clear	Clear	Clear	Clear	Clear	Clear							
pH	-												
Description of work performed													

(300' Dnstream from work area) Sample Point #4

Sample Location (Conveyance Channel)	Sample Point #4	1	2	3	4	5	6	7	8	9	10	11	12
time	7:05	8:00		8:35	9:30	11:55	12:30		1:35				
NTU	18.0	18.0	7.0	7.5	8.0	9.0			8.5				
Turb Color	Clear	Clear	Clear	Slight brown	Slight brown	Slight brown							
pH	-												
Description of work performed													

Notes:

- Hydronic spill (fish oil) on hill from upper leaching to us of coffee deer. Tonnelle work site stop & deployed spill kits to clean & stop spill. (2.30pm)
- #4 point water not discharged to river, picked up still up hill from Tonnelle, per STC Consultant water test discharge @ #3 has been well in compliance & clean. #4 water is a trickle, since most of work site water is being pumped / infiltrated per US Army.
- Crews worked till 10:30pm. Inability had shown no discharge to river, pumps were effective in control water to infiltration into wells.
- Crews finished shift continuing site prep for concrete wall footing.

Observed by (print): Lorey Kleppen

By my signature I certify that this report is accurate and true as witnessed.

Lorey Kleppen

Signature:

Electron Hydro Intake Project

DATE: Sept 1st 2020

Page: 1 of 2

	Morning	Afternoon
River Level:	1700 cfs	
Weather:	Overcast	Light Rain
Precipitation:	0	1/2"
Sample Location	1	2

Upstream Sample Point #1

time	6:00	12:00	1:30	2:30	6:00
NTU	450	700	550	450	330
Turb Color	Brown	Brown	Brown	Light Brown	Light Brown
pH	7.3	-	-	-	-
Description of work performed					
	1100 cfs	900 cfs			

Dnstream Sample Point #2

time	6:30	12:30	1:30	3:00	6:30
NTU	950	650	560	360	233
NTU Δ from #1	0	-50	0	Light Brown	Light Brown
Turb Color	Brown	Brown	Brown	-90	-77
pH	7.21	-	-	-	-
pH Δ from #1	-0.01	-	-	-	-
Description of work performed					

Notes: Work started @ 6:00 a.m. Dewintering began to drain water from work area w/ pumps into muds (infiltration). No observed erosion, BMS's working.

② 1:00 operator excavated deeper hole for Pump 3; this was in effort to help pump pull water. Lakes Environmental consultant advised blocking discharge @ outlet of channel to prevent sand water & sediment to add too much siltation in water. Operator took excavator to discharge & used local rock to back fill for time being on outlet. When rain stopped & water clean w/ re-opened.

Observed by (print): John Keffel Signature: John Keffel

By my signature I certify that this report is accurate and true as witnessed.

Electron Hydro Intake Project

DATE: Sept 24 2010Page: 2 of 2

Sample Location (Conveyance Channel)	Sample Point #3											
	1	2	3	4	5	6	7	8	9	10	11	12
time	6:45	12:45	2:00	2:45	6:30							
NTU	900	600	733	650	550							
Turb Color	Brown	Brown	Brown	Brown	Light Brn							
pH	7.25	-	-	-	-							
Description of work performed	New CFS	200 CFS										

(300' Dnstream from work area) Sample Point #4

	1	2	3	4	5	6	7	8	9	10	11	12
time												
NTU												
Turb Color	Brown	Brown	Brown	Brown	Light Brn							
pH												
Description of work												
Notes:												

Observed by (print): Cory Kelle
 By my signature I certify that this report is accurate and true as witnessed.



Signature:



Electron H₂O Intake Project

DATE: 09/21/2020
Sept 23 2020

Page: 1 of 2

	Morning	Afternoon										
River Level:	~	550 cfs										
Weather:	~	light rain										
Precipitation:	~	1/2 in										
Sample Location	1	2	3	4	5	6	7	8	9	10	11	12
Upstream Sample Point #1												
time	2:30 pm	2:35	3:05	4:05	5:00							
NTU	500	600	650	700	71000							
Turb Color	light brown	light brown	light brown	Brown	Cloud Brown							
pH	N/A	N/A	N/A	N/A	N/A							
Description of work performed	Same as at site prep	Prep coffee & Rd										
CFS	550	560	575	600	600							
Dnstream Sample Point #2												
time	2:30 pm	2:50	3:10	4:20	5:30							
NTU	450	610	650	725	71000							
NTU Δ from #1	-10	+10	0	+25	6000							
Turb Color	light brown	light brown	light brown	Brown	Cloud Brown							
pH	N/A	N/A	N/A	N/A	N/A							
pH Δ from #1	N/A	N/A	N/A	N/A	N/A							
Description of work performed	Same as at site prep	Prep coffee & Rd										
Notes:	Work continued @ 2:00 pm, Electron notified by WDFW for approval of HPA. Work on site began shortly after by stabilizing boulders & setting up pumps per WDFW. Work triggered no turbid discharge into river & water in work area was discharging thru channel. Work ended by 9:00 pm. Water back ground & flow of CFS went up to 1700 cfs during the night.											

Observed by (print):
By my signature I certify that this report is accurate and true as witnessed.

Lorey Klepe


EH-USA001443

Electron Hydro Intake Project

DATE: Sept 2 2020

age: 2 of 2

Sample Location (Conveyance Channel)	Sample Point #3	1	2	3	4	5	6	7	8	9	10	11	12
time	2:15pm	3:15	3:45	5:45									
NTU	100	110	120	120									
Turb Color	Clear/light												
pH	-	-	-	-									
Description of work performed	Prepping Demolition work by Aug 3	Start work by Aug 3	Prep to welding and fit bar to offer in chamfer										
(300' Dnstream from work area) Sample Point #4													
time													
NTU													
Turb Color													
pH													
Description of work	No rain	N/A	N/A	N/A									
Notes:													

Observed by (print): Corey Klepe

By my signature I certify that this report is accurate and true as witnessed.



Signature:

Date	Day	Sampler	Time	Location	Turb1	Turb2	Turb3	Turb4	Turb Avg. (cm)	NTU	Δ NTU	change from background
7/15/2020	Wednesday	MV	8:10	Bridge Washout	5.4	5.2			5.3			
			9:00	Acclimation Pond	4.5	4.2			4.35		0.95	(0.18)
			14:40	Bridge Washout	8.2	8.1			8.15	175		
			15:30	Acclimation Pond	6	6.4	6		6.13	245	70	(0.25)
7/18/2020	Saturday	MV	12:15	Bridge Washout	7.6	8	8		7.87	87		
			12:45	Acclimation Pond	7.2	7.2			7.2	109	22	(0.09)
7/21/2020	Tuesday	MV	12:00	Bridge Washout	5.6	6.2	5.9	5.8	5.88	156		
			12:45	Acclimation Pond	4.2	4.2	4.4		4.27	197	41	(0.27)
7/23/2020	Thursday	CK	NA	Bridge Washout	~8				8			
			NA	Acclimation Pond	~6				6			
7/24/2020	Friday	MV	9:25	Acclimation Pond	5.4	5.3	5.5		5.4	170		(0.25)
			11:20	Bridge Washout	4	4	4.2		4.07	194	24	
7/30/2020	Thursday	MV	8:45	Bridge Washout	4.4	4.2	4.5		4.37	>200		(0.25)
			9:15	Acclimation Pond	3.6	3.5	3.4		3.5	>200		(0.20)
7/31/2020	Friday	MV	7:45	Bridge Washout	1.4	1.2	1.5		1.37	>200		
			8:15	Acclimation Pond	1.2	1.2	1.2		1.2	>200		(0.12)
8/1/2020	Saturday	MV	13:15	Bridge Washout	4.2	4.2	4		4.13	>200		
			14:00	Acclimation Pond	4.2	5	4.8	4.2	4.55	>200		0.10
8/3/2020	Monday	MV	9:15	Bridge Washout	6.6	6.8	6.6		6.67	108		
			10:00	15mDSAccPond	5.6	5.8	5.6		5.67			(0.15)
			10:15	Staff Gage	6.4	6.2	6.4		6.33	108	0	
8/5/2020	Wednesday	MV	9:52	Bridge Washout	6.9	7.4	7.2		7.17	116		
			8:15	5mUSAccPond	6.4	6.8	6.2	6.5	6.48			(0.10)
			8:30	Staff Gage	5.6	5.2	5.6	5.4	5.4	134	-18	
8/6/2020	Thursday	MV	10:35	Bridge Washout	9.9	10.4	10		10.1	75.3		
			11:15	AccPondEffluent	0.6	0.6			0.6			(0.94)
			11:20	5mUSAccPond	11	10.6	10.8		10.8			
			11:30	Staff Gage	9	9.2	9.5	8.8	9.13	88.5	13.2	
8/7/2020	Friday	MV	10:30	Bridge Washout	12.2	12.5	10.7	11.8	11.8	61		(0.33)
			11:00	AccPondEffluent	7.8	7.9	7.9		7.87			
			11:10	5mUSAccPond	12.5	12.7	11.6	11.8	12.15			

Date	Day	Sampler	Time	Location	Turb1 cm	Turb2 cm	Turb3 cm	Turb4 cm	Turb Avg. (cm)	NTU	Δ NTU	change from background
		11:25	Staff Gage		10.8	11.3	11		11.03	58.2	-2.8	
		12:50	New Riverbed Settling		12	11.4	10.8		10.4	11.15		
08/10/2020	Monday	15:30	New Riverbed	Site 1	3.0	3.3	3.4			7200		
		15:40	Arc Pond	Site 2	10.4	10.4	10.4					
		15:50	Staff Gage	Site 3	5.0	5.0	4.9					
08/11/2020	Tuesday	08:150	Site 1 (Bridge)	Site 1	3.8	3.7	3.6			7200		
			(Bridge)	Site 2	4.9	5.2	5.2					
				Site 3 (Arc Pond)	3.6	3.4	3.4					
				Site 4 (Bridge)	5.0	4.6	4.5					
				Site 5 (Bridge)	6.2	5.9	5.7					
08/12/2020	Wednesday	13:35	Site 1 (Bridge)	Site 1	4.6	4.6	4.5			17.8	-1	-1 NTU
			(Bridge)	Site 2	7.6	10.9	7.4			9.5		
				Site 3 (Bridge)	10.2	10.7	10.6			11.8		
				Site 4 (Bridge)	10.6	10.4	10.2			10.40	+1	+1 NTU
		14:30	Site 1 (Bridge)	Site 1	7.0	7.6	7.6					
08/13/2020	Thursday	12:45	Site 4	Site 4	8.9	8.7	8.6			9.0	0.85	0.85
		13:10	Site 2	Site 2	22.4	21.6	21.6			22.0	21.95	
		13:20	Site 3	Site 3	8.6	9.0	9.0					
		13:30	Site 4	Site 4	11.4	11.0	10.9			11.0	0.8	0.8
08/14/2020	Friday	15:20	Site 1	Site 1	12.4	12.4	12.2			12.33	-	No Sample
		15:40	Site 2	Site 2	24.7	24.8	25.2			24.93		Broken NTU
		16:00	Site 4	Site 4	12.7	11.6	12.0			11.7	0.5	0.5
		15:50	Site 3	Site 3	—	—	—			—	—	—
08/15/2020	Saturday	12:15	Site 1	Site 1	5.8	5.9	6.1			6.03	0.2	Tan Dry
		12:30	Site 4	Site 4	7.6	7.4	7.6			7.52	0.16	—
08/17/2020	Monday	07:15	Site 1	Site 1	2.9	2.4	2.6			2.6	0.16	—
		07:45	Site 2	Site 2	4.6	4.0	4.0			4.1	0.1	—
		—	Site 3	Site 3	—	—	—			—	—	Tan Dry
		08:10	Site 4	Site 4	2.6	2.4	2.6			2.5	0.20	—
08/18/2020	Tuesday	07:35	Site 2	Site 2	3.0	3.3	3.0			3.1	0.20	—
		08:00	Site 3	Site 3	4.6	5.0	4.8			4.8	0.16	Dry
		—	Site 4	Site 4	—	—	—			—	—	Dry
		08:20	Site 4	Site 4	3.1	3.1	3.0			3.07	>200	

Date	Day	Sampler	Time	Location	Turb1	Turb2	Turb3	Turb4	Turb Avg. (cm)	NTU	Δ NTU	change from background
08/19/2020	Wednesday	MV	07:55	Site 1	10.4	10.1	10.6	10.3	10.35	—	—	No Power
			08:15	Site 2	9.0	9.8	9.0	9.9	9.93	—	—	@ Chalet
			08:30	Site 4	10.4	10.1	10.0	10.8	10.08	—	—	
			—	Site 3	—	—	—	—	—	—	—	Site Day
08/20/2020	Thursday	MV	06:00	Site 1 (Bridge)	7.1	7.2	6.6	6.9	6.95	104	—	Site scenario A & 2
			08:10	Site 2 (Bridge)	7.8	8.1	8.0	8.0	7.97	100	—	Site scenario A & 2
08/21/2020	Friday	MV	—	—	—	—	—	—	—	—	—	Site not Sample
08/21/2020	Friday	MV	08:30	Site 1	11.1	11.6	11.0	11.0	11.25	105	—	Causing
			09:20	Site 3 (Bridge)	13.5	13.2	13.6	13.4	13.43	—	—	Day
			—	Site 4 (Bridge)	—	—	—	—	—	—	—	Day
08/22/2020	Saturday	MV	08:30	Site 2 (Bridge)	10.6	10.3	10.7	10.7	10.53	103	—	—
			07:30	Site 1 (Bridge)	10.8	10.6	10.9	10.7	10.73	103	—	Day
			08:20	Site 3 (Bridge)	10.0	10.1	10.2	10.1	10.1	100	—	Day
			08:45	Site 2 (Bridge)	10.1	10.5	10.5	10.5	10.37	100	—	Day
			—	Site 4 (Bridge)	—	—	—	—	—	—	—	Day
08/23/2020	Sunday	MV	12:00	Site 1	8.6	8.3	8.5	8.5	8.47	104	—	—
			13:30	Site 3	14.0	14.4	14.5	13.4	14.08	(~75)	—	Site Day
			13:40	Site 2	10.7	11.0	10.6	10.6	10.77	98.7	—	Site Day
08/24/2020	Monday	MV	07:40	Site 1	10.8	7.9	7.0	7.0	7.1	105	—	Site Day
			08:20	Site 3	10.4	10.2	10.6	10.4	10.4	90	—	Site Day
			08:40	Site 2	10.4	10.6	10.3	10.7	10.5	104	—	Site Day
08/25/2020	Tuesday	MV	08:05	Site 1	10.6	10.8	10.8	10.6	10.6	270	—	270g clean
			09:45	Site 2	10.2	10.0	10.2	10.1	10.13	240	—	240g clean
08/26/2020	Wednesday	MV	12:00	Site 1	10.3	10.8	10.3	10.2	10.35	270	—	270g on chart
			12:45	Site 3	9.0	9.4	8.8	8.8	8.8	130	—	130g on chart
			13:10	Site 2	10.2	7.0	7.0	7.0	7.0	220	—	220g on chart
08/27/2020	Thursday	MV	13:30	Site 1	3.8	4.0	3.8	3.8	3.84	500	—	530g on chart
			14:50	Site 2	4.0	4.1	4.2	4.0	4.08	500	—	500g on chart
08/28/2020	Friday	MV	12:10	Site 1	3.3	3.5	3.5	3.4	3.43	550	—	550g on chart
			12:50	Site 3	3.1	3.7	3.0	4.83	270	—	~5g	
			13:10	Site 2	4.6	5.1	5.0	4.90	390	—	—	

07/15/20 - 08/24/2020 = Using old turbidimeter, suspect reading

on
chart:

Date	AirTemp °C	Sampler	Time	Location	Turb1	Turb2	Turb3	Turb4	Turb Avg. (cm)	NTU	Δ NTU	H2O °C
09/03/2020	MV	07:15	Site 1	4.4	3.8	3.8	3.7	3.93	-	100	-	7.6 °
		08:40	Site 2	3.8	2.9	2.9	3.7	3.87	-	450	-150	
09/08/2020	7.5°	MV	07:10	Site 1	7.6	7.8	6.4	8.0	7.96	180	-	6.3 °
		07:40	Site 2	9.0	9.1	9.0	9.0	9.02	155	-25	6.2 °	145 °
09/09/2020	7.7°	MV	15:10	Site 1	9.0	9.1	9.0	9.0	9.03	120	-	6.2 °
		15:30	Site 2	9.8	10.4	10.1	10.1	10.1	120	-	-	123 °
09/10/2020	MV	10:00	Site 1	6.0	6.2	6.6	6.2	6.25	160	-	8.0 °	160 °
		09:30	Site 2	7.2	8.0	8.4	7.4	7.75	160	-	7.7 °	165 °
09/11/2020	~15.5°	MV	09:55	Site 1	6.6	6.8	6.8	6.0	6.6	6.5	-	8.0 °
		10:40	Site 2	13.0	15.3	13.1	12.8	12.9	13.15	95	-	8.3 °
09/15/2020	MV	08:55	Site 1	6.6	6.6	6.6	6.1	6.6	13.13	85	-10	8.0 °
		09:35	Site 2	8.0	8.1	8.4	7.0	8.0	160	-	-	85 °
09/16/2020	CK	07:00	Site 1	9.4	9.5	8.4	9.0	9.4	115	-	8.5 °	
		10:30	Site 1	9.8	9.0	9.0	9.0	9.13	105	-	8.4 °	
09/17/2020	CK	07:00	Site 1	9.0	8.8	7.0	9.0	8.93	100	-	8.6 °	
		07:30	Site 2	9.2	9.0	9.2	9.2	9.13	100	-	8.5 °	
09/18/2020	CK	07:45	Site 1	9.0	8.9	8.6	8.80	8.85	135	-	8.8 °	
		08:00	Site 2	9.4	9.4	9.6	9.46	9.46	122	-13	9.0 °	
09/23/2020	CK	11:30	Site 1	126	126	126	126	126	126	-	9.4 °	
		12:00	Site 2	140	140	140	140	140	140	-	9.5 °	

H₂O

Date	Day	Time	Sampler	Location	pH read 1	pH read 2	pH read 3	pH Avg	Temp °C	Comments
08/27/2020	Thursday	12:00	MV	Site 1	7.60				10.7°	Background levels
				Site 3	7.74				16.5°	Background levels
08/28/2020	Friday	07:40	MV	Site 1	7.46				13.5°	Background levels
		08:20		Site 3	7.41				7.0°	
		08:40		Site 2	7.45				6.8°	
08/29/2020	Saturday	09:05	MV	Site 1	7.61				7.5°	
		09:45		Site 2	7.35				7.9°	
08/31/2020	Monday	12:00	MV	Site 1	7.67				9.4°	
		12:45		Site 3	7.65				11.7°	
		13:10		Site 2	7.40				12.6°	
09/01/2020	Tuesday	13:50	MV	Site 1	7.45				13.0°	
		14:50		Site 2	7.31				14.1°	
09/02/2020	Wednesday	12:15	MV	Site 1	7.49				10.6°	
		12:50		Site 3	7.50				15.0°	
		13:10		Site 2	7.26				11.9°	
09/03/2020	Thursday	07:15	MV	Site 1	7.25				7.6°	
		08:40		Site 3	7.20				7.7°	
09/08/2020	Tuesday	07:10	MV	Site 1	7.44				10.3°	
		07:40		Site 2	7.35				10.2°	
		10:00		Site 1	7.14				8.0°	
09/10/2020	Thursday	09:30		Site 2	7.15				7.7°	
		09:50		Site 3	7.14				6.0°	
09/11/2020	Friday	09:55	MV	Site 1	7.38				9.3°	
		10:40		Site 2	7.23				9.5°	
09/15/2020	Tuesday	08:55	MV	Site 1	7.39				8.0°	-0.22 pH in ~ 2500 ppm
		09:35		Site 2	7.17				9.1°	after 1st esty rins
09/16/2020	Wednesday	10:00	CK	Site 1	7.44				8.5°	
		10:30		Site 2	7.32				9.4°	
09/17/2020	Thursday	7:00		Site 1	7.30				8.0°	
		7:10		Site 2	7.29				8.1°	
09/18/2020	Friday	09:45		Site 1	7.30				8.8°	
		10:15		Site 2	7.28				9.0°	
09/18/2020	Friday	09:45		Site 3	7.35				9.1°	
		10:15		Site 1	7.28				9.1°	